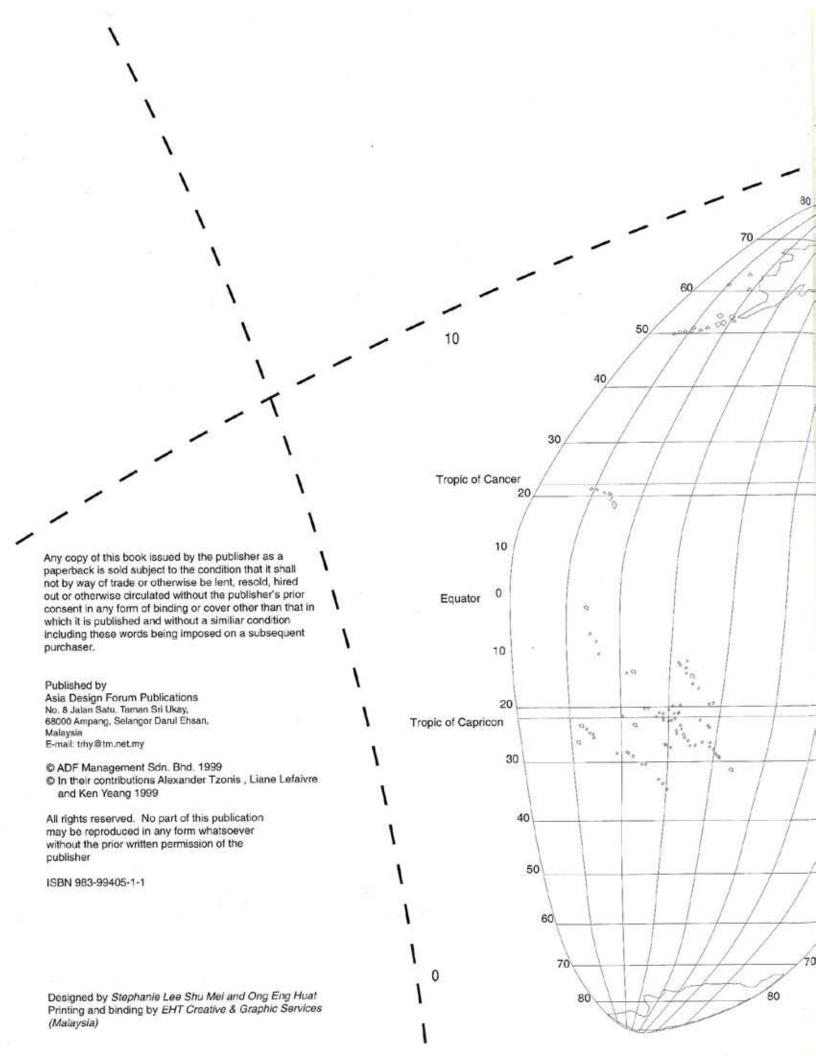


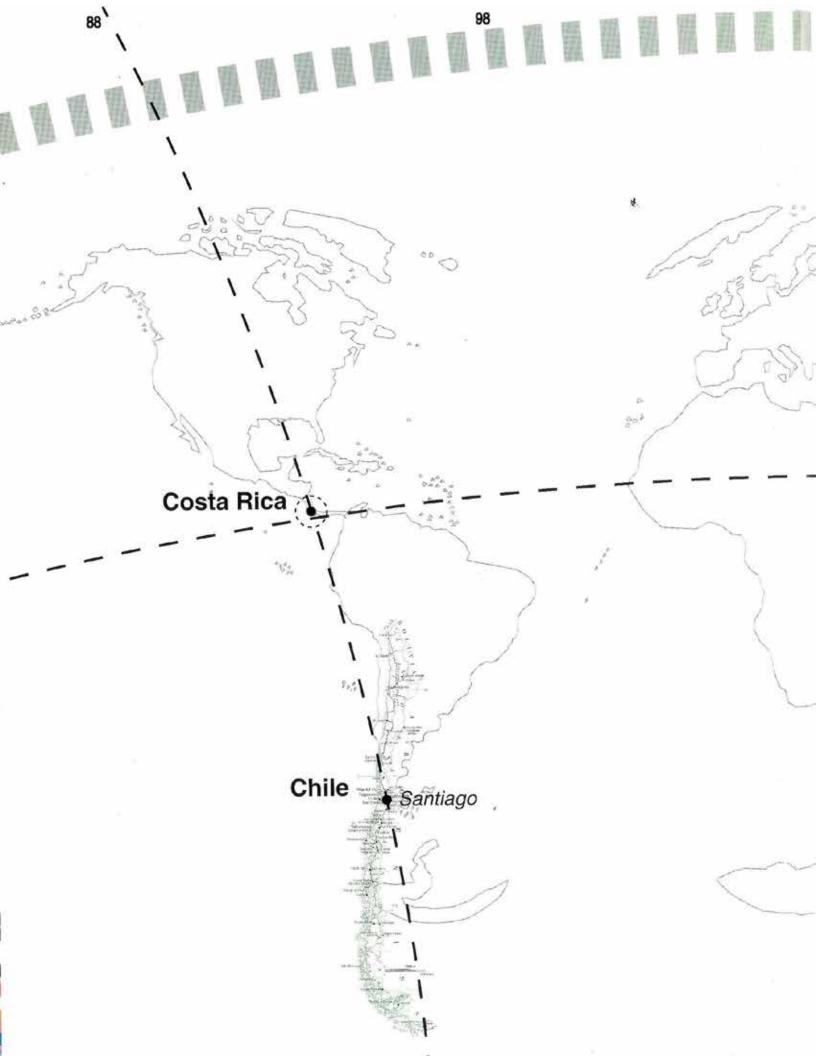
Bruno Stagno An Architect in the Tropics

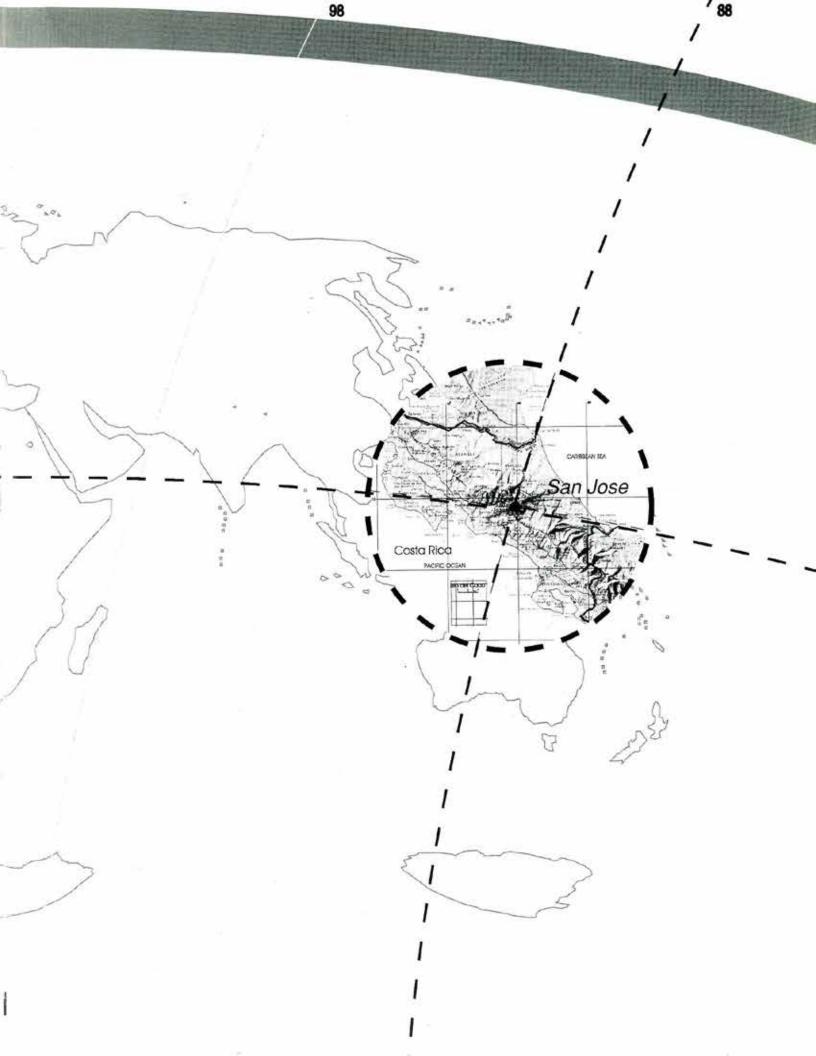
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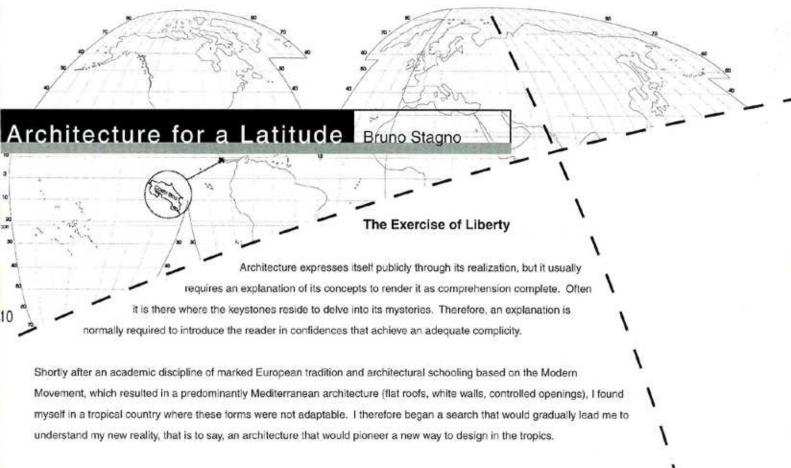
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In order to adequately communicate the changes brought about by this search, I must reveal the most elemental steps that helped me tread the path I have followed for the last 30 years. This pilgrimage commenced from France to Chile, and has continued, for I cannot say it has ended, in Costa Rica.

It might be assumed that I am an immigrant turned around, and if so, I must confess that I am an immigrant, who in search for roots, arrived in Costa Rica with the aim of establishing myself permanently. In this respect, an excerpt from the **Critique de la Modernit** by Alain Touraine, exemplifies the essence of the immigrant and his existential paradox: "...It is the figure of the immigrant that should be chosen today as the emblematic figure of modernity. As a traveler full of memories and projects, he rediscovers and redefines himself every day by linking his past to his future, his cultural inheritance with his professional and social insertion..."

Faithful to this constant rediscovery, I considered it necessary to understand the country that accepted me, and thereby began to make myself a place in architecture. To better understand the specificities of Costa Rica, I considered it necessary to study the Artic and its interior spaces that shelter, as well as the desert where the tent of the Bedouin offers successful examples of adaptation to extreme temperatures. By opposition, I was able to grasp the depth of the tropical forest where the air saturated with humidity traps the light that penetrates in shafts that traverse the foliage. Visiting these extremes allowed me to better understand how surrounding environments condition life and habitat.

During childhood, I lived near the heat of the stove that united the family in winter. The search for that heat was a necessity in southern Chile. In the tropics, it is the shade that refreshes and unites, and contrary to the stove, it is everywhere. In the tropical latitude the local experience of family cohesion therefore becomes relative and dilutes through the open spaces- some members of the family lie on a hammock under the shade of a tree, others in the corridor seated on a bench under the shade of the eaves.

I have also observed that the architecture being created was neither indicating a way nor structuring a language. Only individual projects existed whose transcendence was self-limiting. I discovered then, that they were multiple gibberish, and that due to their differences they only discriented. This made the insertion all the more difficult.

Confronted with this situation, "...I considered myself a nobody from nowhere, equal to no one and belonging nowhere. All my ties had disappeared, I had arrived at an Anti-Jerusalem, not a home, but a far gone place..." (1)

I must confess I often felt desperate solitude and faced with despair the certainties of routine.

Soon the necessity arose to find my own way and a manner to develop an architecture that

was adaptable to the tropics. I fervently initiated a solitary search that would lead me to find a

solution. Therefore, I chose to isolate myself, to read very little of the published architecture and

even less of its images, in order to concentrate on a more immediate assimilation of the tropics.

In so doing, I lost touch with the "isms" that characterize and formalize architecture in this

century, and by conviction, I could not be tempted to design by imitation.

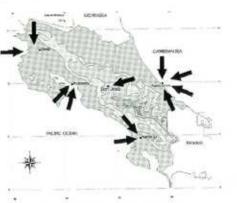
During this prolonged solitude, that was at times desperate, I managed to find consolation by recalling the following verse: "...in truth, my son, all the stars have parted, but never shall it get darker than when dawn arrives..." (2) Because I had analyzed the local contemporary architecture without finding what I was searching for, I delved into history with the hope of finding anchor in some more inspiring epochs. In all, I studied pre-Columbian, colonial, republican, and Victorian architecture. I ventured throughout the country to observe the exuberant vegetation, became astonished with the transparency of natural light and the abundant tropical rain. Despite its small extension, I discovered that different architectural traditions coexisted in Costa Rica, and that each tradition gave rise to architectural typologies that are appropriate to each one of the microclimates into which the country is divided.

Throughout, architecture revealed a sincere concern to respond adequately and appropriately to the climate, through sustainable solutions that arise from every day truths and customs.

Anonymous builders without any formal academic background were mainly responsible for the majority of these architectural solutions. Mere common sense and constant observation and experimentation sufficed to produce an architecture that has transcended time.

Every builder, making an intelligent use of the available resources and technologies proper to each time period, adapted himself to the requirements imposed by the natural context by proposing appropriate designs. These anonymous builders took into consideration at the moment of design such diverse elements as rain, sun, humidity, and topography, without losing sight of the daily living requirements of the population. They gave rise to adaptations that are so evidently successful that they produce pleasure. They are architectures that produce delight.

I concluded that one did not have to confine oneself to one single time period nor limit oneself to the analysis of any one historical period. First, because no period is more important than another and secondly, because all these architectures are manifestly adaptations.



Soon afterwards, I realized that a correct interpretation of latitude, and more specifically of the tropical latitude, not only gave expression to the architectural language but also assured its coherent adaptation to the environment. What interested me in this language was the syllables, more than any precise words, sentences, or paragraphs, for it is precisely in the syllables where the expression of latitude resides. Even more so, the reiteration or repetition of the same syllables in the course of different periods of Costa Rican history, not only made manifest a certain consideration for the environment, but indicated that adaptation to it constituted a tradition.

Major wind directions:

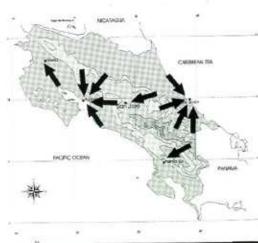
It is precisely these syllables that integrate architecture into the context of its locality. Among these syllables one can mention contained open spaces, high sloped roofs that rapidly discharge the rainwater, extended eaves that award shade, perforated or dematerialized facades which capture the breeze and ventilate the interior, large drainage ditches, interior vegetation, shaded intermediate open spaces, reposed interior half-lights, and the ever-present central vestibule (zaguan), which not only ventilates, illuminates, and organizes the interior, but also assures an adequate and comfortable habitability in the urban houses made of wood.

I paid attention to the popular architecture and in particular to its language, which is largely based on spontaneous and impulsive solutions that respond to necessity. In this language, I discovered the profound significance of the concept of informality in architectural expression, so different from the cosmopolitan images that are nowadays universalized by the mass media. This informality is a distinguishing characteristic of all the architectures of latitude, that through expressive informality and liberty provide resolute solutions that are neither academic nor semantic, but that nevertheless constitute intelligent responses to the environment. By mere trial and error and ingeniousness, popular architecture achieved a convincing expression based on inexpensive materials and inspired by the local climate and lifestyle.

I have tried to incorporate this informality, which managed a distinct respect for the surrounding environment through nothing more than mere common sense and knowledge inherited by tradition, into my architectural expression. Thus, I felt myself inspired to say that "...I understand tropical architecture as an exercise of liberty, and not as a domain of dogmas..."

Tradition and Vanguard

The analysis of these syllables in the course of Costa Rican architectural history made me understand that together they represented a tradition. These tropical architectures superseded history by transcending from the pre-Columbian to the Victorian period through a reiterative presence. From the hut of the Cabecar or Bribri Indians to the colonial and republican house or the architecture of the banana plantations, one finds an unequivocal reply to a climate that is dominated by sun and rain. However, all of them are also in remarkable synchrony with their respective time periods, with the resources and technologies then available and the lifestyles of their inhabitants. From observation alone of these architectures, one can situate them immediately in a latitude.



Major wind directions:

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I believe it is necessary to clarify that I am not particularly interested in a stereotyped or fixed tradition. I am attracted by a tradition that bestows a sense of belonging to history and confers identity, or in other words, by the tradition that contains the spirit of a certain place and time. I do not pretend to reproduce any tradition of tropical architectural through imitation, but I do pretend to innovate within tradition. That is, I want to make tradition evolve while maintaining the many adapted solutions that have resisted time and become anchored to culture.

I began delving into the past, and I still enjoy doing so, to retake the continuity in architectural culture and mend the break in tradition imposed by the technological approach of the Modern Movement. For with the introduction of architectural banalities, the Modern Movement fell from the mastery of its precursors to the base simplicity of its imitators.

Tradition and vanguard are usually seen as opposites in architecture. We normally relate tradition with stagnation and vanguard with progress. We also tend to reduce traditional architecture to a mere style and vanguard architecture to a new technology.

Thus, tradition frequently appears in contemporary architecture as an aesthetic consideration that privileges the use of a style of the past.

At the other extreme, vanguard architecture seeks new expressions that privilege the use of recent technologies. Both expressions are limited and construed by their own limitations, for they believe they are opposites or extremes despite the fact that they share a common purpose. In a merely aesthetic consideration, an architecture that seeks style cannot be vanguard architecture, for it reproduces elements of composition of the past and privileges a retrospective attitude. It can even lead to false copies of the past in a desperate effort to obtain an expression that belongs to the past.

In a merely technological consideration, it is the use of new construction materials and techniques that single-handedly dictates and determines the degree to which a construction is a legitimate expression of vanguard architecture. These two extremes have caused disarray in contemporary architecture, for they appear as the only two parameters or tendencies into which architecture can be catalogued. On the one side retro architecture and on the other high-tech architecture. Architects are thus divided into two separate groups that compete for supremacy, causing a generalized empoverishment of architectural criticism.

On the one side, retro architecture glorifies those expressions that arise from the architectures of the past and that are saturated with direct subjective connotations that evoke a sentiment of belonging. With the repetition of stylistic elements such as cornices, turrets, stuccos, and others, traditional architecture summons a past which, as the word itself clearly conveys, is past. With this purpose, it employs constructive falsehoods to imitate the materials of the past, such as polymer beams that imitate wood and polymer facades that imitate bricks and rocks. In the end, this type of architecture is nothing more than a simulation.

On the other side, high-tech architecture concentrates on the use of vanguard materials that convey an idea of progress. Vanguard construction techniques influence and at times determine the design. This type of architecture is geared towards the ultimate, the newest, the latest and showcases the different applications of vanguard construction materials and techniques. High-tech architecture is only practicable in countries that have high technology and have

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the necessary resources to

cover for its high costs. For example, it hardly
seems evident to use 3 by 10-meter windowpanes that have
high-resistance stainless steel fixtures in this country or any other
developing country because it just defies the realm of the possible. High-tech
architecture expresses the technological capacity of what humankind is capable of designing and
constructing. It seeks to surprise and to awe, but the irony is that with the fast-paced evolution of construction

Contemporary architecture is thus simultaneously cornered by an architecture of false pretense that revives the glory of the past and an architecture of surprise that concentrates on technological feats. The present thus seems divorced from its past and from its future, and contemporary architecture is thereby empoverished by these manichean expressions that reduce architecture to purely formal and material expressions.

techniques in industrialized countries, awe-inspiring designs are rapidly supplanted by ever more recent designs.

An empoverishment that has reduced architecture to the production of images that are saturated with aesthetic content but entirely divorced from the most essential purpose of architecture-provide shelter. Such applications have apparently forgotten that architecture is in essence, an intellectual proposition that is built to permit life with a coherent poetic content that is suitably adapted to the social and natural environment. All manichean applications necessarily reduce it to mere aesthetics and thereby empoverish social and individual life.

I thereby wonder if it is possible to make tradition evolve or to create a vanguard that is not technological. If tradition is defined as having an origin or roots in the past and the transmission of these origins or roots, it implies a transmission of knowledge from past to present. Tradition then becomes dynamic. It usually has a conservative connotation that excludes any possibility of evolution.

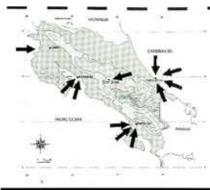
Vanguard has been restricted to the application of the latest technology, thereby rendering impossible a non-technological vanguard. If we consider a broader definition of vanguard, it simply means to be ahead. Therefore, any architecture that generates progress can become vanguard architecture, an example being bioclimatic architecture.

Both tendencies shun the present. One looks back, seeking to simulate and the other looks forward, seeking to surprise. They reveal a stunning distance from the present situation of humankind, from a being that is trapped between a familiar but distant past and an unknown future, which he forecasts. Contemporary architecture is thus left unattended, displaced and disconnected from its present. If we manage to see tradition as a current that evolves by aggregating knowledge that is assimilated to generate progress, we could then reconcile tradition and vanguard and solve the ambiguity of contemporary architecture.

A redefinition of vanguard that arises from tradition which makes it evolve is particularly apt for today's regional architecture that is so easily forgotten because they do not respond to either tendencies. Such an attitude divorces the past and the present and unfortunately shelves architectures which are charged with content and knowledge and that are the end product of a successful marriage between resources, customs, and environment. Moreover, they perpetuate the cultural content of the society that built them. If we study traditional architecture, which communicates a coherent expression of an entire culture, it is very likely that we may formulate a contemporary architecture that is based on adaptation and continuity. It would solve this double negative of the rejection of the present by the past and the future, something which has generated a void in contemporary architecture.

Environmental syncretism

In order to establish my intellectual position. I elaborated the concept of environmental syncretism (3), which synthesizes a sincere compromise with the environment and on the one hand, an attitude of careful selection of influences to enrich our culture that simultaneously rejects those that impoverish it. Environmental syncretism is a demonstration of openness and tolerance that purports to exceed the limitations of context to allow for sustainable proposals that are in tune with the "contemporaneity" in which we participate. It must thereby recognize and overcome these limitations by searching for external values that can be appropriated to strengthen the extraordinary that characterizes local architecture and culture.



Major wind directions: Rainy season-night from May to Decembe

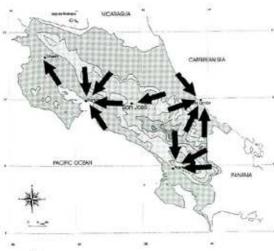
It is an attitude of aperture that is not interested in purity. On the contrary, it emphasizes the mixture and the intelligent hybridization or half-breeding, more than the cloning, of different realities. If desired, it is an act of impurity that amplifies the frontiers of a culture that has turned increasingly shallow and at times even asphyxiating.(4)

The moderation and keenness with which one assumes this attitude of selection and assimilation of influences, is of primary importance to the hybridization and appropriation process. One must not lose sight of the fact that the objective end of the process is to enrich the attributes of the local architecture and culture. Nothing is more adverse to environmental syncretism than that planetary uniformity which erases the differences and smoothes the discrepancies between cultures. Unlike this planetary uniformity, it is an antidote to the exhaustion into which some cultures have fallen.

In the wake of the restlessness that economic globalization produces, with its threatening intellectual uniformity, it is necessary to react by rescuing and strengthening the local and what is proper to it. This reaction must privilege what is local while remaining contemporary, for it must not become anachronistic or folklore. My work pretends to be a constant and permanent search that consolidates in time and bases itself on theoretic principles that are specifically formulated for the latitude. I also pretend to overcome the challenge that is posed by the ascension of the local to the universal. This longing can only be achieved if my architecture has the capacity to express latitude with a contemporary language. Therefore, I am deeply interested in giving prominence to expression to facilitate the compromise of the architectural work with the environment.

This desire to reach the universal from the local can be met through an architectural practice that conveys a message of coherent environmental adaptation, that is to say, through an architectural creation that virtually exaggerates expression to praise the latitude.

In this search for expression, I believe it is more useful to look for similarities in the east and the west than in the north or the south. Thus, from Costa Rica, which lies on the 10th parallel north, we can redefine the frontiers of mutual enrichment.



This solitary search through previously unexplored terrain, has had

the virtue of discovering new grounds for architectural creation that, superimposed on the
grounds of nostalgia, evoke mixed feelings. When one is an immigrant, which is my case, the
establishment of roots is necessary in order to fully assimilate the environment, and in so doing
one approaches its sources of identity and quality and can become fully acquainted with them.

Architecture for a Latitude

Sensation of openn

Architecture designed for a latitude is above all an architecture of adaptation. It must necessarily privilege, or at least recognize the importance of the natural and built environment, the available resources and technologies, and the local lifestyles. In the case of the tropics, it must in addition take into consideration tropical thought and its accompanying magic, the radiant sun, the transparent and ever-changing sky with its pristine light that at times becomes dismal and dramatic, the blue-green hue of the hills, and many other elements that are characteristic of the tropical latitude.

Costa Rica is a small country that is situated in the Central American isthmus that separates the two oceans and that served as crossroads for the Mayan and Incan civilizations. In spite of its position as zone of interchange, it never truly joined both oceans or continents, a particularity that allowed for an isolated decanting of what truly was proper. In this recognition of its identity, the fact that Costa Rica was the least explored and most isolated of Spanish colonles certainly played an important role.

As I mentioned earlier, for many years I have been trying to define the values of Costa Rican architecture through the concept of environmental syncretism. By means of a careful selection of influences, we select only those that enrich and naturally adapt to the evolution of traditional tropical architectures. If this is truly a continuous process, which has existed since the origin of time, it has nevertheless helped me to identify and clarify our tendency at the end of this century. It has given me the certainty that our creations must be sustainable and those universal doctrines must recede.

Globalization has emerged with the homogenous distribution across the globe of the means of communication. This means that our ideas and beliefs now have the possibility of being "accessed" from a distance, a circumstance that puts us on equal terms with colleagues from industrialized countries. For the first time in history, our voices have the chance of being heard. The communications network is universal and of free-access and within it ideas are in constant competition. Therefore, one must responsibly transmit those ideas that may find an audience abroad.

Paraphrasing Gianni Vattimo, who considers that the global development of communications has favored the expression of local cultures and minorities and awarded them the possibility to participate, it also introduces the beginning of the end of the universalism that gave quasi-exclusivity to some more industrialized cultures. This means that no society can impose unanimity and that no one and no discourse can pretend the monopoly of reason.

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As national economies try to globalize, local cultures have made significant efforts to assess their own identity. It may even be desirable to promote a generalized emancipation of local cultures, and in my case I propose a utopia that can coexist with others around the globe. The architecture of this utopia should take into consideration some important elements of the local environment in order to reinforce the expression of the latitude and render it unequivocal. The expression of this architecture, in the case of the tropics, must at least convey the following:

- 1. Morphological Informality The informality of tropical architecture is a result of its independence from monolithic systems of thought and dogmatic systems of images. It reveals itself throughout history with varying degrees of liberty. Although not academic, an intellectual process based on mere common sense is more sensible to the immediate context in keeping its distance from images of architecture that pretend to be universal. I interpret the morphological informality of traditional tropical architecture as an exercise in liberty and as a sign of emancipation from globalization that makes common sense and conveys respect for the immediate environment.
- 2. Sensation of Openness Open spaces that favor cross-ventilation and integration with the surrounding vegetation through transparency in design, seem especially well adapted to this latitude. High spaces contained below sloping roofs create an immediately recognizable interior in spite of the wide apertures to the exterior.
- 3. Architecture of Materials Nowadays, the most common and inexpensive construction material is the cement block, which I leave exposed to reduce maintenance costs and accentuate its unique appearance. I have also combined these blocks with bricks and concrete to rescue an ancestral construction technique. The simple appearance of these very materials contributes enormously to the overall expression of local architecture.
- 4. Penumbra of Interior Spaces In contrast to the clear skies and the transparency and brilliancy of natural light, it is necessary to create an interior penumbra that relaxes the eyes. The long overhangs and protruding roofs designed with the common sense of traditional builders, shade the windows and structure and allow for comfortable relaxation.
- 5. Expressive Synthesis From an analysis of traditional architecture, I have recovered the elements that most evidently define its expression: the sloping roofs for rapid evacuation of rainwater, the long overhangs that shade and protect from inclement weather, the openings that dehumidify and refresh the interior, and textured walls. All of these elements confer character and have remained constant throughout the different periods of traditional tropical architecture.

In the following synthesis of Costa Rican architectural history, in which I have selected housing as the subject of analysis, I shall try to demonstrate how different constructions were adapted to their natural environments.

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Architecture for a Latitude

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Housing and Groupings of Pre-Columbian Populations

For the effects of this analysis, I am only interested by those constructions that in seeking adaptation to their natural environment provided answers to questions that made survival possible. In the Arctic and the desert, the igloo and the tent are respectively constructed with ice and fabric, yet resist the inclement weather and yield protection. In equatorial Africa and America, wood branches were tied with vines to create structures that were then covered with leaves and mud, producing comfortable living quarters. Unfortunately, irreverence and Indifference towards these traditional architectures became standard simply because it is easier to implant a glass box, that is artificially air-conditioned, than to develop an architecture that respects and works with the environment. This cultural menace also threatens the tropics, where temperature differences are minimal and only the strong rains perturb life.

In Pre-Columbian times, architecture under the thick foliage of the tropical forest predominated, with walls made of branches that allowed for the breeze to pass freely and large vegetated roofs with extended eaves. The mass of interior air, the rapid evacuation of rainwater, and the religious sense of spatial organization, are all highlights of this non-hermetic development of space. The lesson I derived from Pre-Columbian architecture is that there is absolutely no reason to create sealed spaces and artificial climates.

It is quite evident that ever since mankind began constructing habitats, many answers and solutions were found in the natural environment. Whether it be the Eskimo igloo or the Bribri hut, the inspiration is the same, both looked to the environment to find solutions that fulfilled basic survival and social requirements. Neither was trying to express an identity through architecture, yet by constructing they respectively developed construction techniques and styles that are remarkably functional, coherent, and adapted to the environment. Even today, we can learn from these architectures.

Colonial Period

The Spaniards came to this territory with hopes and dreams of a "New World" where they were pledged to a life of compromise and adaptation to the conditions they found. The colonizers established themselves and created a lifestyle that was markedly different from the one they abandoned in Spain, developing certain elements that served to link the two worlds.

In particular, I am interested by the identity the Spaniards managed through developments in housing. Contrary to the Indians, whose houses were made of branches and vegetation, the Spaniards developed adobe as an adequate and innovative solution to housing. Moreover, they introduced urban planning by defining street blocks and positioning the houses in the corner of each block. Interior spaces were clearly enclosed by exterior facades with few openings, and dominated by long corridors full of light and nature. This housing plan was meant to be consistent with the lifestyle of the inhabitants.

Other elements that highlight this architecture are the tiles, the overhangs, the sidewalks, and baseboards (zocalos). These elements, that repeat themselves in all the houses, are an answer to the perpetual problems of the tropics. The urgent need for ventilation and freshness was solved with the use of curved tiles, which protect from the heat without blocking the breeze, with perforated eaves, which accelerate air currents through a venturi effect that compensates for the thick and hermetic adobe walls, and with exuberant interior vegetation.

The Spaniards constructed with the materials they had readily available- wood, mud, and some stone. With these simple materials they built houses of character that are remarkably well adapted. As a result of the application of this one and only typology, the cities had uniformity in style that complemented the checkerboard uniformity in planning that was only broken by churches, palaces, and other important buildings that interrupted the homogeneity of the city quadrants.

Concept sketches incorporating "Zaguan" principles

PACIO INTERNIOR FAMILIAR

Republican Period

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EVACUACION PLUVIAL

ESPACIO INTERIOR

With the independence of the Central American colonies from Spain in 1821, the colonial economy was superseded by an incipient capitalist economy. Because of its stable investment climate and its easy access to two oceans, Costa Rica was in excellent condition to take advantage of the possibilities offered by coffee production. By 1856, coffee already constituted almost 90 percent of total exports.(5)

Around 1835, city life started to change dramatically with the arrival of merchants and travellers.

With the export of coffee, the existing infrastructure was considerably enhanced and increased.

San Jose started to grow at an accelerated pace, the city center changed with the gradual

disappearance of colonial houses. Devastating earthquakes destroyed the remaining adobe

constructions until 1910, when adobe is prohibited as construction material. New construction techniques employing wood allowed for a more rational use of space and densification.

Moreover, with the use of wood new styles appeared, among which the more salient are the Neoclassic and Victorian. These new styles are notable examples of the harmonious integration of design concepts. The house with central vestibule (zaguan), with its characteristic cross-ventilation and natural illumination, became a predominant typology in the cities of the Central Valley. The central vestibule, a kind of shaded and ventilated interior living room replaced the interior corridor that was typical of the adobe house, where life goes on independently of the rain or the sun. It was an excellent solution for urban housing in dense cities.

Another solution that emerged during the republican period was the villa, a house that by definition generally stands in the middle of gardens. This typology is totally independent from the adobe house, being more of a copy of imported designs that were adapted by anonymous builders to the climate and the lifestyle of Costa Rica. Here we encounter a legitimate example of architectural syncretism that modifies international models to adapt to the local environment and even generate tradition.

Banana Towns

CENTRO

Banana town housing is one of the more interesting examples of an architecture that is adapted to the humid tropics. The banana plantations were situated in large tracts of flat arable land that were ready for exploitation upon clearing. Because they were located at quite a distance from the cities in the Central Valley, it was necessary to invent production and transportation methods that adequately responded to the economic demands. Moreover, it was indispensable to house thousands of plantation workers, a reason why some banana plantations were independent towns, with houses, schools, hospitals, churches, stores, shipping facilities, and an American zone that comprised golf courses, club houses, and airstrips.

Within the plantations, a network of private roads and railways linked the different parts of these agro-industrial cities. The housing units of the employees were organized around rectangular lots that were converted by the inhabitants into football fields. They were constructed using wood for the structure and zinc for the walls and roofs. They empirically adapted to the environment, with the use of protruding eaves that protected the structure from the sun and rain. Because they were located on flat humid land, the floors were raised above the ground using stilts to avoid flooding and animals. The sloping roofs facilitated the evacuation of rainwater and were somewhat detached from the walls to let the hot air escape.

All windows and doors were of considerable size to facilitate the airflow and reduce humidity and had screens to protect the inhabitants from the insufferable onslaught of insects.

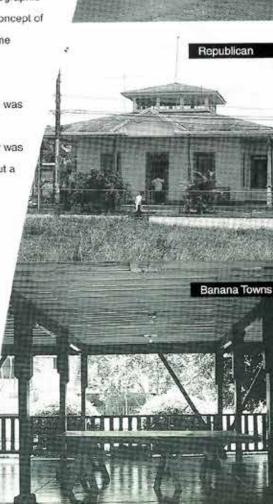
In considering the housing of these banana towns as architectural patrimony of the tropics, I am not trying to glorify the austerity of the living conditions, nor am I pardoning the little attention given to human necessities by many multinationals. I am simply interested in the response to necessity that generated an architectural solution that proved to be remarkably well adapted.

Modern Architecture

After World War II, the international architecture of the Modern Movement forced its way into the country, generating a considerable degree of disorder in the cities. In 1952 the population reached the million mark and was mostly concentrated in the Central Valley, a demographic growth that could not but affect architecture. A response came from the European concept of modernism that was applied by a majority of engineers and constructors and only some architects.

This disorder brought about a deviation from tradition. Everything that came from abroad was considered modern, without even bothering to examine its true nature. Local artists and intellectuals eagerly accepted any aesthetic that seemed modern, even though the majority was totally divorced from the social and cultural reality. *...We built a systemic architecture without a system, and large containers without content. In other words, we tried to talk without understanding the language nor the original intent of the author...*(6) Although we had the illusion of being modern, we learned that a global methodology is negative.

With the arrival of new styles such as Art Deco and new techniques such as the open plan, the blank facade and the domino structure, we also discovered a new material- reinforced concrete. New forms arose, but unfortunately none were coherent with the tropical paradigm and only gave way to brutal aesthetics. These new typologies marked the city, erasing the local architecture and replacing it with a ubiquitous box. Instead of integrating tradition and technology, concrete supplanted wood as the favored construction material. The free-flying overhang was transformed into a thick and heavy cornice, the perforated facade was sealed with cement blocks and fixed windows, thus nature was excluded.



Colonial

Reinforced concrete was not the problem, on
the contrary, it offered previously unimagined possibilities and
forms, but these should have risen from local examples and lineage and not
from ambiguous global concepts. We therefore suggest a hybridization of modernity and
local identity. Modernity should forcibly interpret local conditions to find adapted solutions that are
contemporary and of recognizable identity.

Contemporary Architecture

Nowadays in Costa Rica, within the new generation of students and some recently graduated architects, there exists a favorable attitude towards the importance of latitude and its capacity to generate architecture. I have no doubt that their designs will be exemplary and promote a new relationship between the individual and the environment.

This new attitude arose from research in cultural patrimony and contemporary society, and led to an architecture that is at the crosspoint of traditional tropical architecture and international technological advancements. This crosspoint is really a narrow hinterland in which we suffer the risk of kitsch copied from the past or a third world "high-tech".

In my architectural practice, I propose to find a solution to the contemporary disparity that on the one hand desires and advances the future and on the other values the past and tradition. In 1961, Paul Ricoeur lays down the foundations of a solution in **Universal Civilizations and National Cultures**, when he writes: ... *In order to get on to the road toward modernization, is it neccessary to jetison the old cultural past which has been the raison d'être of a nation?... Whence the paradox: on the one hand the nation has to root itself in the soil of its past, forge a national spirit, and unfur! this spiritual and cultural revendication before the colonialist's personality. But in order to take part in modern civilization, it is necessary at the same time to take part in scientific, technical and political rationality, something which very often requires the pure and simple abandon of a whole cultural past...* (7)

A new conscience has thrived that safeguards expression as a result of respect for the environment and culture. These new buildings communicate with clarity that they were inspired by the formal liberty of traditional tropical architecture, recuperating with sensibility certain elements of the vocabulary that are aptly expressed in contemporary terms. In these buildings one recognizes the architectural syntax that is the result of various constructive elements: protruding eaves, sloping roofs, materials that require little maintenance, glaring light, and others. That is, a series of elements that are intimately linked to the latitude and its lifestyle. This attitude and their modern construction techniques allow developing societies to become a part of contemporary civilization, and at the same time maintain expressions that are easily identified by the inhabitants as their own. This objective is perhaps the only universal ideal in architecture, and it requires the collaboration and cooperation of all cultures to be successful.

Architecture for a Latitude

Bruno Stagno

When we look at globalization as individual consumers of culture, it would be adequate to interpret foreign influences and conscientiously adapt them to our local environment. If we turn them down we are turning down evolution, if we accept them without question we have succumbed to passive assimilation. Therefore, it is necessary to summon them and intelligently filter those effects that are deemed undesirable. How do we intend then, as architects, to give a physical identity to an environment that is constantly pushing us to the limits of our very identity? That is the true debate.

As a global society we have entered into a new type of internationalism. The internationalism of this time is not based on a style, that is to say a certain physical expression, but on a lifestyle. That of the fax, Internet, and high-speed transportation. With the daily crisscrossing of images and information that influence our regional environments, what defines and identifies a culture remains intangible. Therefore, contemporary architecture should look towards tangible and stable influences that would help differentiate the various cultures of the planet.

The influence of nature is the only element that will remain unchanged with the metamorphosis of traditional cultures. Louis Kahn once said, ... "We learn the law of art by seeing a lot, and by being told a lot and by sensing a lot, but other things come out of the very characteristics of the air, and of the light... very simple overlasting presences that should constantly talk to you in architecture..."(8) This attitude will help us maintain cultural identity and rehumanize our architecture.

The question posed by Ricoeur opens a Pandora Box of more questions that are increasingly difficult to answer. For them, there is no correct answer, nor is there a method to navigate through this complicated question. What we do have are certain resources that we can individually use to attempt an answer. The most important resource we have available is memory. Inherent to every person, to every civilization, memory is a memory of senses, customs and traditions. Architect Luis Barragan believed so passionately in memory, that he used it to give form to what is now considered to be a new tradition in Mexican architecture. The following two questions posed by Barragan, help define architectural expression. "Do I feel comfortable in this space?" establishes a relationship between the individual and the built environment. This question tries to associate the experiences of the individual likes and dislikes, desires and wishes with the particularities of the environment. "Does the space feel comfortable in its environment?" is a more ample question that criticizes the physiognomy of the surroundings. Neither question suggests restrictions nor dictates a specific design process, but both demand a high level of self-criticism and analysis. Both shall bring forth a series of personal and social experiences that derive from the collective memory of a society and the individual memories of its inhabitants.

The direction of many of these cultures towards a more interconnected world is evident, but a certain sobriety must be maintained during the course of development. Globalization, as we have learned from the mistakes of our past, "is not a maintenance-free perpetual-motion machine."(9) Of course, technological progress and cultural evolution are inevitable. We should embrace these developments, yet we must be in control of what we accept and how we accept them and we must proceed at our own pace. If we allow the suppliers to dictate the pace, we will end up accepting much more than we need without having the capacity to absorb it.

In an effort to control what we accept, I have proposed to reject the architectural fetishes that are exhibited today by "intelligent" buildings. The electronic mechanisms that control climate, energy consumption and security isolate these buildings from their surroundings. These systems are very expensive and extremely sophisticated for developing societies like our own.

Instead of these intelligent buildings however, I prefer a foolish or perhaps ingenuous architecture that at least is adapted and fashloned to its setting. My buildings are ingeniously intelligent because they provide the same levels of comfort and efficiency to their users yet rely heavily on tried and true solutions of the past.

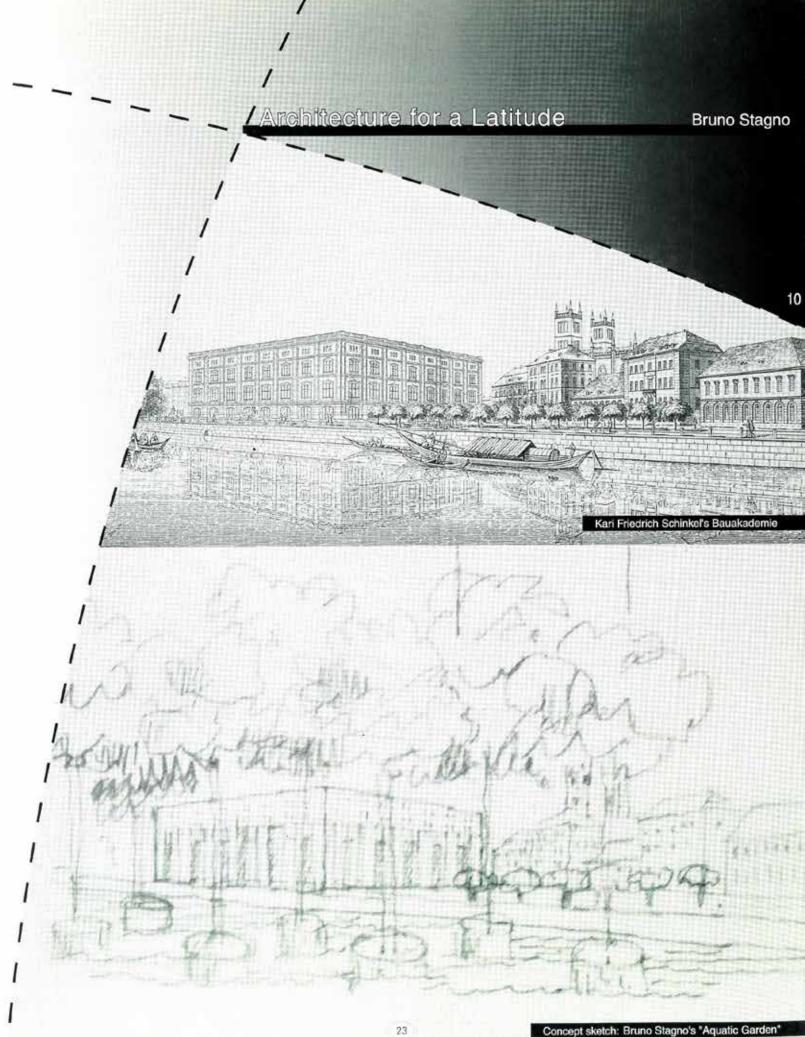
However, when globalizing markets try to flood the planet with vanguard technologies and products, two definite outcomes are a dislocation from cultural tradition and, consequently, a dislocation from architecture. Because of this, I have proposed to develop a more responsible intellectual attitude with the goal of privileging the products of the latitude. Architects and builders throughout history have had to balance conceptual and technological influences with inspiring examples that generate new attitudes. Nevertheless, few have been coherent. I propose to be so and believe that this critical attitude I am applying is applicable to every culture that finds itself on the receiving end of hegemonic thoughts and products.

To my surprise, I have discovered that intellectuals in the industrialized countries can embrace my ideas. In a recent competition for a new building in Berlin, Germany, which would occupy the site where Karl Friedrich Schinkel's Bauakadamie once stood. I proposed a mangrove swamp for Berlin with a "potent urban landscape" that impressed the jury and caused the following commentary: "... Aquatic Garden, Bruno Stagno, from San Jose, the distant capital of Costa Rica, Inspired by the competition of the Bauakademie designed a surprising architecture. Stagno widens the canal of the Spree River, covering with water the triangular square of Schinkel and thus transforming it into an aquatic garden. In it he creates in a vigorous architectonic order a garden planted with trees protected from the water with flowerpot stands of stone. A building of brick that retakes the measures of the original building of Schinkel, although compositively different, adapts itself to a corner of this pond. Coming down towards the water lead ten large stairs, forming a wide flight of stairs. A more raised stair goes to the lower floor level of the building: a courtyard, a loggia composed of pillars that escalate in three levels, which becomes an urban space. Above, at the top of the roof "clouds or waves", one finds in three level the academy... This ideal space (that) permits the Berliner an scape in order to come into contact with natural elements...".

The project that was selected together with other European ones proposes a new relation with the water and the trees, somewhat like the one of the tropical mangrove swamp. I risked bringing my simple ideas to a complex context, yet, my project represented a solution that could be understood and appreciated outside a tropical context. This is a legitimate example of a "contemporary architecture" that does not imitate, but instead, allows various civilizations to find their own voice.

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Bruno Stagno and Architectural Biodiversity Liane Lefaivre

Alexander Tzonis

The contest between the idea of a universal architecture, applicable to all situations, and the idea of many, individual kinds of architecture, relative to each situation, is once more dominant in the architectural debate.

We might call it the architectural absolutist/relativist contest. The struggle has come back under many different names in history: romantic versus classical, expressive versus normative, ethnic versus international, populist versus professional, bottom-up versus top-down, regionalism versus globalization. It always opposes two views: that it is possible and desirable to establish a universal culture and that these cultural values are hopelessly incommensurable with the particular, local, specific conditions of the real world.

Periodically one of the two views dominates the architectural scene, sometimes for good reasons, and sometimes for inappropriate ones. As much as the search and application of universal norms in architecture stood and still stands for communication and efficiency, it also stood and stands for oppression and waste. The same is true about dogmas of individualism and independence, for liberation and creativity, and also for sectarianism and isolationism. After the Second World War, architecture benefited from a world movement of technological advancement, giving undreamed of possibilities for construction and environmental control. But it also suffered equally, if not more, from a totalitarian application of solutions, which ignored the particularities of economic and ecological resources and the specific needs and aspirations of people. One might consider this as an effect of colonialism, imperialism or globalization, evidence of which one finds not only in several parts of the colonized world but also at the very heart of the land of the "colonizers."

When twenty-nine year-old Chilean architect Bruno Stagno arrived in Costa Rica in 1973 via Chile from Paris, one of the capitals of universal culture, it was as an internationally recognized young architect. By his mid-twenties, he worked with Jose Oubrerie in the design team of Le Corbusier's Church at Firminy. Le Corbusier, of course, had been an architect who, although committed to universal norms of design such as the standard of the Modulor or the piloti principle, had explicitly tried to integrate his work with the context of the region he was building in. Sometimes he had been successful, sometimes the results were dubious. However, Le Corbusier, like a number of "stars" of pre-war modern architecture, was exclusively involved in a mechanical reproduction of architecture, without consideration for the specifics of a particular site or community of users.

Stagno himself was not inclined to follow the same easy path leading to a one-architecture-fits-all rhetoric of universal, absolute values. This kind of servile imitation legitimized by universalism was already, as he writes, "everywhere" in San Jose, and the effects were clearly disastrous. The use of the technology of concrete in the name of Neo-Brutalism, a technology that had been creatively applied by Le Corbusier at the end of the 1940's in projects such as the Unite d'habitation, had become an exercise in mindlessness. The concrete, brutalist aesthetic did nothing but erase "local architecture, replacing it with the basic ubiquitous box." It ran against tradition, and made no effort to reconcile "tradition with technology." It denied factors of climate, ecology and environment, creating a "hermetic environment isolated from the natural one." The buildings, in other words, were "not coherent with the tropical paradigm," 1

Walls open to light and ventilation

from the pre Columbian structure

Given this situation, newly immigrated Stagno undertook a task that nothing in his previous experience in Europe or Chile had prepared him for. He began to develop a Costa Rican architecture. This adaptation was worked out on all aspects: technical, environmental and cultural. Stagno's efforts to create such a synthesis in the framework of a regional context are part of a regionalist tendency that marked architecture world- wide. But it is more with the new generation of Tropicalist architects, who are trying to solve micro-climatic and construction complexities together with the problem of identity through a therapeutic approach to a post-colonial trauma, that Stagno is more in harmony with. As Singaporean architect and theoretician Philip Bay points out, "the romantic part of humanity call for a new paradigm to bridge historical memory and memory". 2 We find this similar concern with the place of traditional culture among architects and urban designers all over the Tropical belt, in the designs of Oscar Niemeyer in Brazil and Ricardo Porro of Cuba in the 1950s and 60s, and, more recently, in the work of Ken Yeang of Kuala Lumpur, Rahul Mehrotra of India, Geoffrey Bawa of Srl Lanka, Eduardo Tejeira-Davis of Panama, Tang Hok Beng of Singapore, and Severiano Porto of Brazil.3

Stagno's work holds a distinctive place within this tendency. A series of early articles chart his early development. Among the historically defined traditional building types, three caught his attention and they are as follows:

- the pre-Columbian period (up until the Spanish colonialization),
- the Spanish Colonial period (1500 1821),
- the Republican period (1821- 1950).

In studying the context of regional prototypes, Stagno discovered in them their universal principles and general characteristics. In this manner he was able to depict in them not the difference for its own sake but the ingenious differentiation and instantiation of an abstract type adapting to the specific conditions of a situation. The adobe houses of the Spanish colonialists for example providing through its long corridor ventilation instantiating the Venturi suction effect. The same with the pre-Columbian buildings and their palm leaf and wood column walls, filtering light and air. Going back to an even earlier type, the Persian zaguan, the houses of the Republican period provided optimal conditions of light and ventilation for the household.

Another more recent prototype studied by Stagno was to be found in the domestic architecture of the company towns exploiting Costa Rica's "fincas bananeras", or banana plantations founded by the United Fruit Company commencing from the 1870s. From a certain point of view, this was a natural choice. Designed by European and American engineers, this architecture, like that of the Spanish colonial and Republican periods, adapted an international style architecture — in this case derived from the bungalow — to the tropical climate admirably. In fact, finca bananera buildings, thanks to their lightweight and economical frame structures, open walls and multiple, parallel rows of long overhanging eaves made up of sheets of zinc that protect the structure from sun and rain, were even more well adapted than the other traditional building types. Furthermore the internal spaces, according to Stagno's own account, were also the most aesthetically pleasing, maximizing the sensual play of light, shadow and breeze, Tellingly, the banana settlements are the only prototype that Stagno has dwelt on at some length, devoting an essay to it.4

However, from another perspective, the choice was not so easy. As Stagno writes, it was
"controversial" because of the "at times negative socio-economic consequences" of the banana
plantation exploitation.5 The Banana Towns have been historically synonymous with
imperialism in Central America, even in a traditionally democratic country like Costa Rica and
they are seen as the site of social struggles according to American social anthropologist,
Philippe Bourgeois.6 Edward Said's "Imperialism and Culture" equates the appropriation of
elements from a hegemonic culture as an inevitable acceptance of the exercise of the
hegemonic power behind it.7 However this is not the case here. The choice was not motivated
by servility. Neither was it the result of a beleaguered, defensive and constricting stance of
"resistance." Rather, it followed a third path, more difficult to define because it is less trodden.
One can compare it to the "cultural cannibalism" of Brazilian intellectuals of the 1920s,
creatively appropriating elements from European Modernism as Cuban cultural critic Gerardo
Mosquera has mentioned.8

Indeed, what one observes in Stagno's design thinking is what cognitive scientists variously call
"re-categorization"," re-framing," "re-cognizing." The four traditional building types that could
not have been more different from one another in their morphology, social and cultural agendas,
and political contexts. To see them as making up a cohesive set of elements, united by their
micro-climatic efficiency, Stagno had to stand back and look at them through new eyes, in the
new and unfamiliar, one might even say "strangemaking" way typical of critical regionalists. He
had to strip these traditional buildings from their conventional meanings and bring to light what
remained hidden to what Le Corbusier had once called "les yeux qui ne voient pas" (the eyes
that do not see).9 The operation was cognitive, but the effect was social, cultural, economical
and environmental. Not surprisingly the eyes that do see are often the eyes of the outsider. This
is the case not only with Stagno in Costa Rica, but also with Felix Candela in Mexico, Renzo
Piano in New Caledonia, and Pancho Guedes in Mozambique and John Utzon in Australia.

We cannot re-create the past, "except in the spirit of a masked ball" wrote Lewis Mumford in
"The South in Architecture".10 This stance is what a distinguished Critical Regionalist, like
Mumford would call delusional, xenophobic, blood-and-soil type regionalism.11 He would also
describe it as a hallucinatory, kitsch and folkloristic type regionalism, the type which the tourist
industry caressed. Stagno, like Mumford, is not interested in mimicking past architectural forms.
He extracts from them only what is necessary to help solve the problems of the present. In other
words, he reapplies them as, what cognitive scientists would call "precedent knowledge." The
syncretic recombination of precedent knowledge that is everywhere evident in Stagno's work, is
a heuristic approach that, arguably, is at the basis of all creative activity.12

"Hybrid" architecture. 'Mestiza" architecture. These are different metaphors that Stagno has used to describe the combinatoric, syncretic design thinking that informs his designs. His designs which meshes and fuses into a harmonious whole the previously distinct and even mutually exclusive four phases of Costa Rican architecture.

Bruno Stagno and Architectural Biodiversity

Perhaps another metaphor that is also

appropriate for an architecture of the tropics is "biodiversity."

Look closely at any building of Stagno's -- his Casa Friedlander (1978),

Office Building of the 6th avenue (1993), Dinca Warehouse (1991-93), Bank of San Jose-

Escazu (1996), Colegio Panamericano (1996) and especially his Ford Showroom/Bank of San Jose (1995) and his project for the Interactive Center for Peace for the Arias Foundation for Peace and Human

Progress (1996) -- and you will discover a special sub-species evolved from a combination of the pre-existing architectural ancestors:

1) Walls open to light and ventilation from the pre-Columbian structures,

2) The Spanish colonial corridor system with Venturi effect,

3) The Zaguan from the Republican style house,

4) The long overhanging eaves and lightweight construction typical of the banana plantations.

If bio-diversity can serve as a metaphor for the architectural mind, perhaps architectural design can, in turn, serve as a metaphor for a constructive attitude toward nature, an attitude of biodiversity and sustainability. Since Darwin traveled throughout the tropics on The Beagle, 13 the exuberant bio-diversity of the tropical regions of the earth have been of fascination to nature scientists. Princeton researcher John Terborch in his "Diversity and the Tropical Rain Forest" writes that "...the logic of life that infuses the tropics is still a mystery and we are only just beginning to understand how crucial it is to the well being of human life on the entire globe...".14

It is getting more and more difficult to disassociate architecture from the issues of ecology, sustainability, and biodiversity. They are of essence to our continuing quality of life. Perhaps the mind of a designer is like a tropical rain forest in which ideas cross-fertilize one another, creating countless sub-species, triggering evolutionary processes that shape complex inter-relationships, resulting in a rich profusion of architectural life. The tropics can be an optimal environment in which not only natural but also cultural biodiversity can unfold. This seems to be Bruno Stagno's message. What is certain is that he is one of the architects who is helping to keep the architectural ecosystem of ideas thriving.

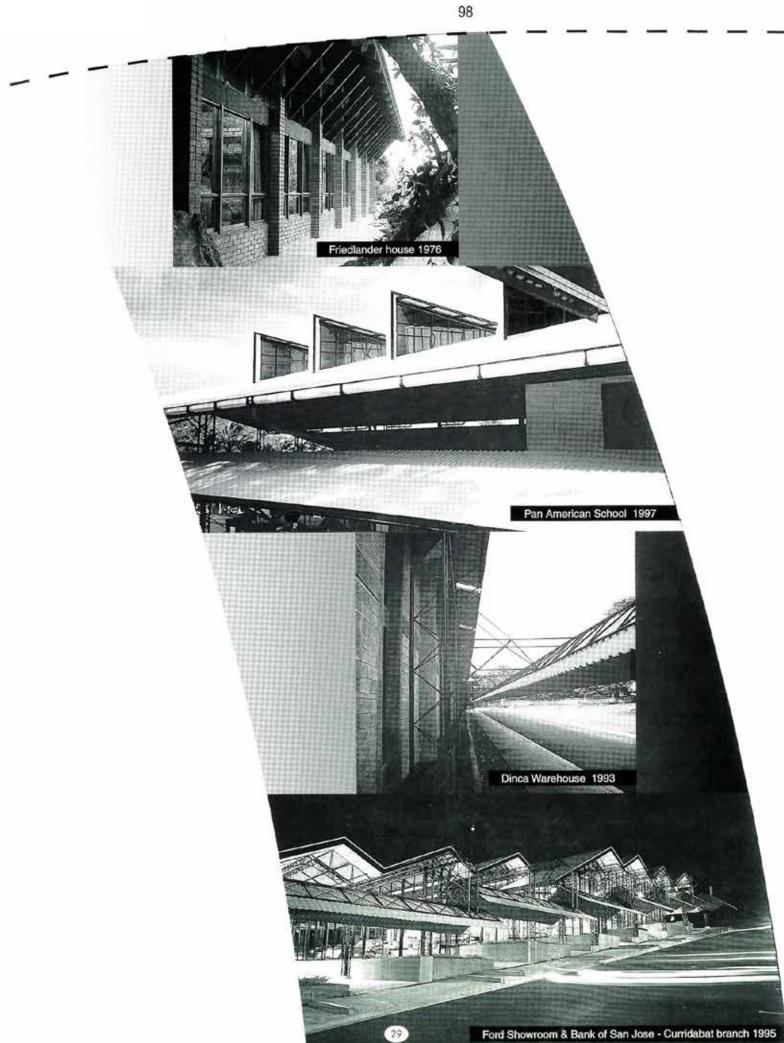


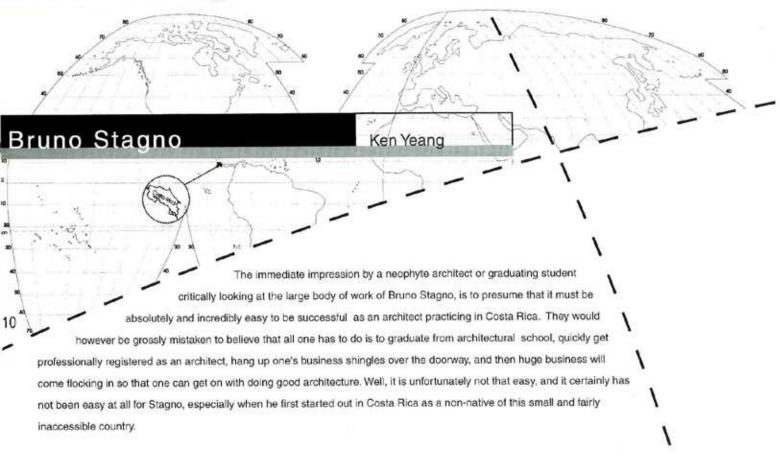
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A collective volume of works of an architect such as this, often does not truly reveal those dreary mundane tribulations of running a practice such as coping with the usual hazards of marketing and getting clients, retaining paying clients and keeping good staff, balancing the dreaded elusive cash-flow, and other prosaic but crucially important aspects of managing projects under construction. Besides doing all those, Stagno is working within the economy and work environment of an emergent and developing economy where the support of a sophisticated construction industry is generally non-existent and the assistance of competent and inventive engineering consultants are few and far in-between. It is then doubly amazing to find that Stagno has produced a consistent, discoursive and fine body of design and built works.

For in a small community, it is just dead easy for the architect to cave in to the undiscerning provincial client who wants something totally architecturally objectionable or phillistine. But to remain steady in his aspirations and beliefs, and to work within a credible agenda that is consistent with his own 'syncretic' and hybrid approach to tropical architecture while fighting simultaneous professional fires at a number of fronts (as with any professional practice) is certainly a major achievement for Stagno.

Stagno's agenda is both for a tropical contemporary critical-regionalist aesthetic as well as for a tropical sistemic architecture. By this we mean that his designs must not only evolve from a vibrant hot-humid tropical climate in an emergent country without resorting to historical pastiche, but that the architecture must also function well as tropical structures in their response to the climate of the place.

Like the man himself, this is a cheery, breezy and unpretentious architecture. It is an architecture of layered roof planes, sometimes angled and laid out like sun-light-responsive leaves from a luxuriant and occasionally flowering tropical plant. The web-laced steel structures are light, stem-like and optimises economically on both local and imported materials. The thin-plane roofs like leaves, are appropriately deep pitched to efficiently discharge the heavy rainfall. The walls are light-weight skins to facilitate good cross ventilation when needed, and to allow clear natural light in to reduce the need for artificial lighting.

Simply stated, bioclimatic design is the design of buildings that optimises on all passive modes (such as through appropriate buildform configuration, appropriate building orientation, adequate facade design, effective sun-shading, use of vegetation and landscaping, appropriate building colour and the use of wind and natural ventilation). All these passive means need to be optimised in relation to the ambient climate of that latitude to achieve improvements in comfort levels better than the ambient conditions of the place. This must first be achieved through the use of non-active and hence non electro-mechanical means. Then following this, other modes of environmental servicing, such as the use of mixed mode systems and full modes where the inevitable, might be integrated. In all the projects presented, Stagno's architecture manifest evidence of all these, some to a greater and others to a lesser extent.

What next then for Stagno? In today's architectural discourse, it is no longer sufficient for such an architecture that depends in part on it's ability to operate systemically in response to the local climate to be simply designed intuitively and by general rules of thumb alone. Today's architectural and engineering communities would voraciously demand that the architecture's building performances need to be interrogated at the pre-design stage, quantified and demonstrated, and even it's post occupancy aspects evaluated and verified. One might then hazard a guess that Stagno has perhaps reached a saturation point here, as the zenith of his current set of investigative tropical and regionalist explorations.

Interestingly, some pop sociologists contend that a person's life (and by analogy here, an architect's personal discourse) evolves in a series of cycles (of around ten years or so per cycle), and that after every cycle, the person goes through a form of crisis condition where he or she advances or regresses depending on the decisions taken. This change, for the better or for worse, depends on the situation and the responses. It is perhaps timely then to suggest that this body of work by Stagno signals for him a crisis point (and not meaning here a derogatory stage) in his architecture.

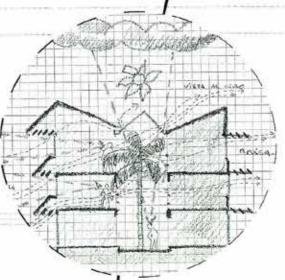
Now, in addition to Stagno seeking for more challenging projects that are of greater scale and complexity, and in different climatic zones, perhaps the next stage in Stagno's architecture and it's development might be for him to advance his builtforms into a more individual architectonic aesthetic, or even alternatively, to inventively advance the operational bioclimatic responses of his architecture.

Possibly these are the new challenges facing Stagno. Following from this encouraging series of his work, we wait anxiously for what is to come.

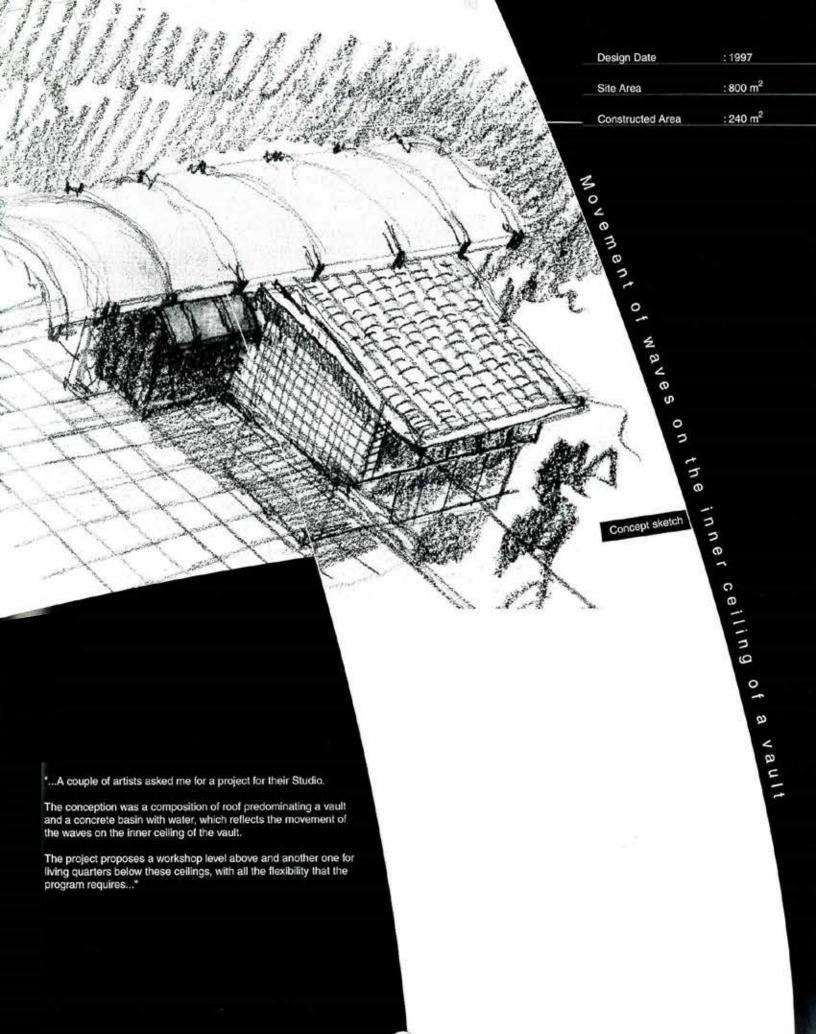
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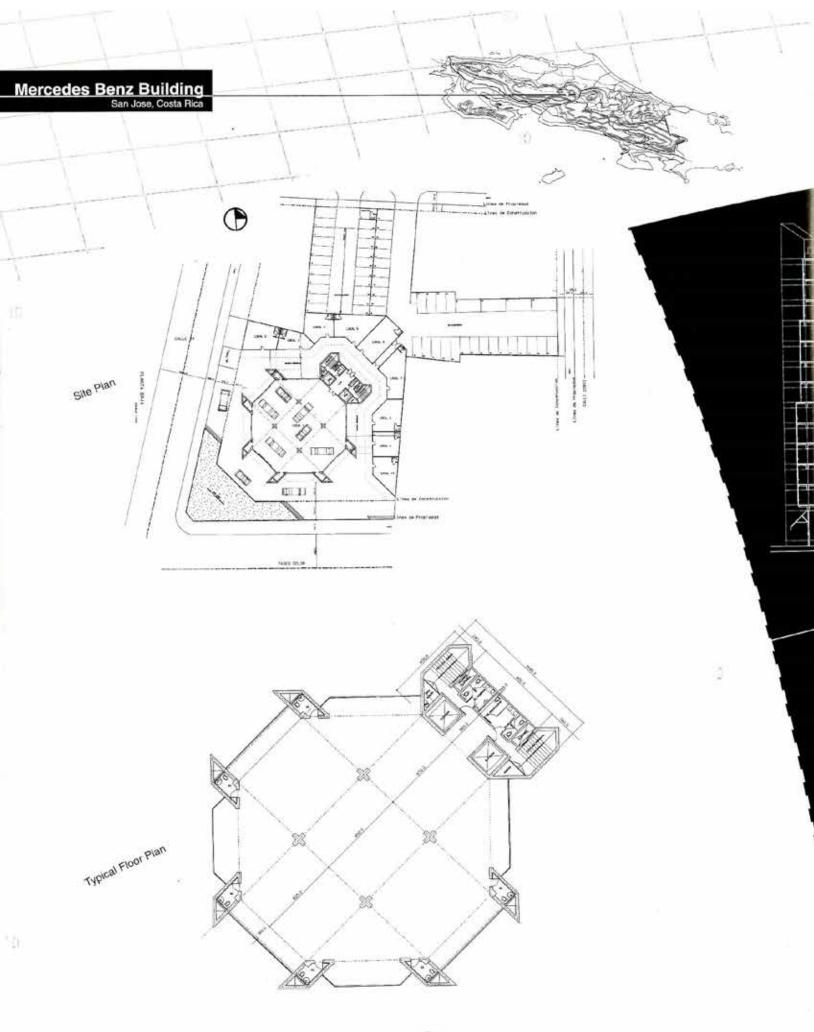
Buildings and Projects

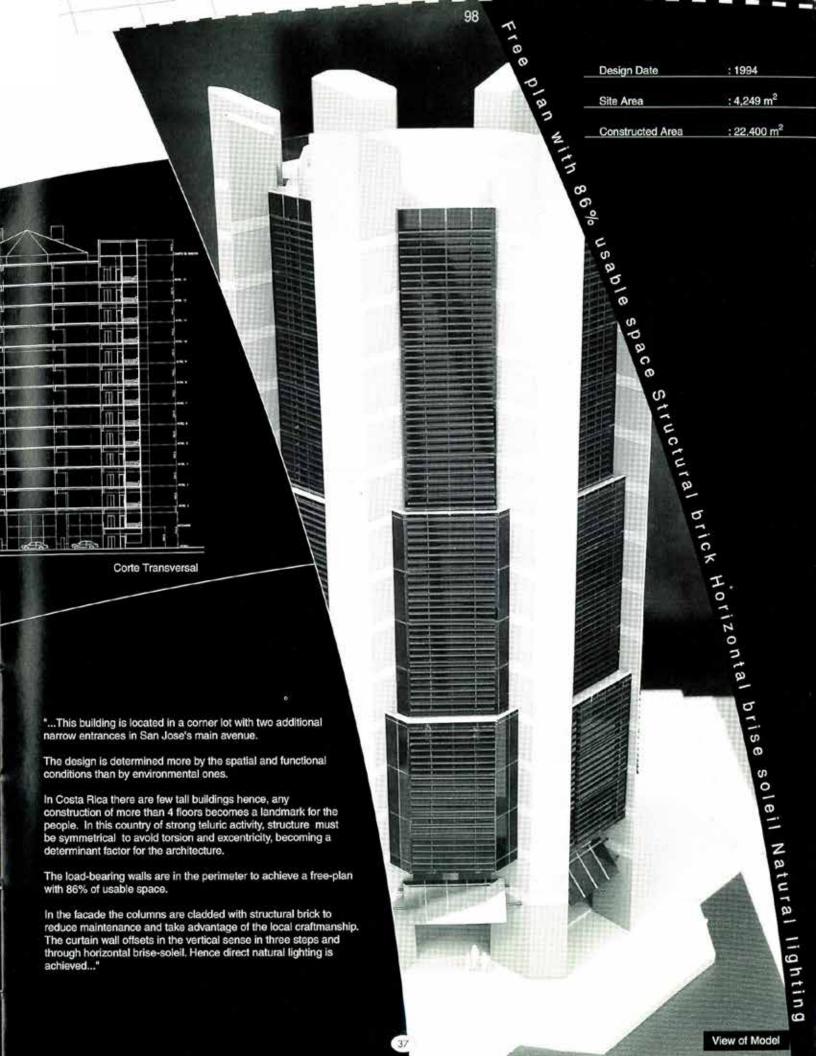


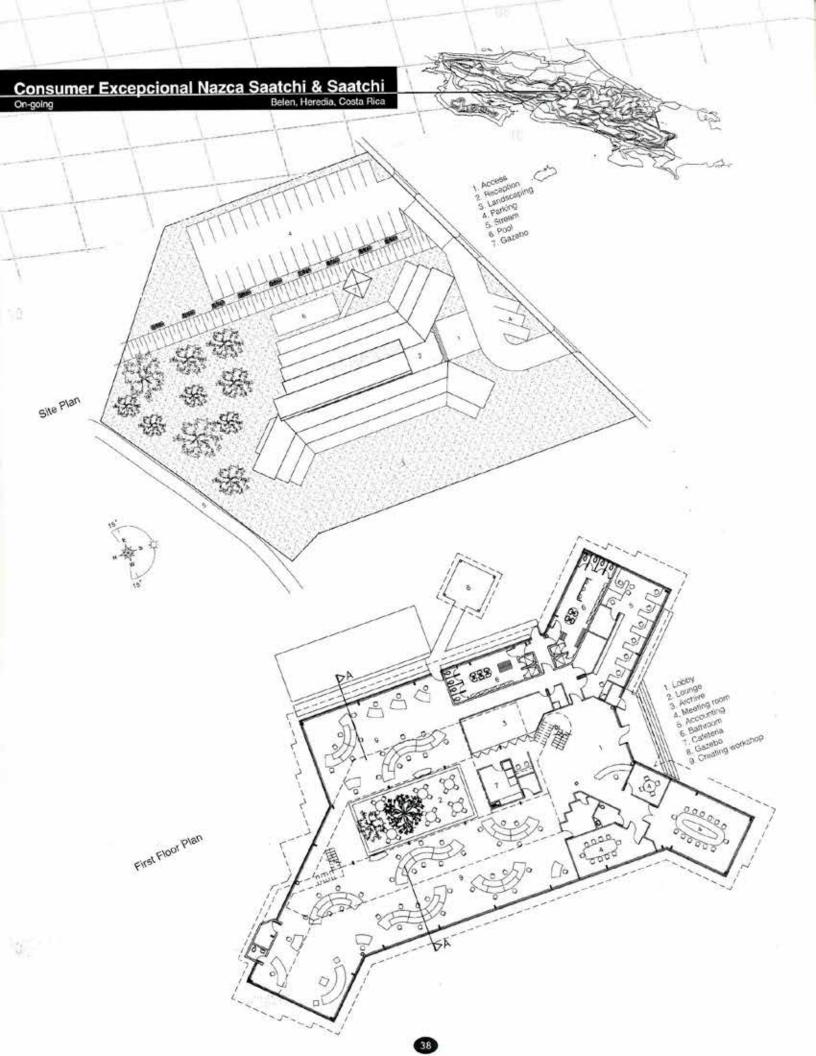


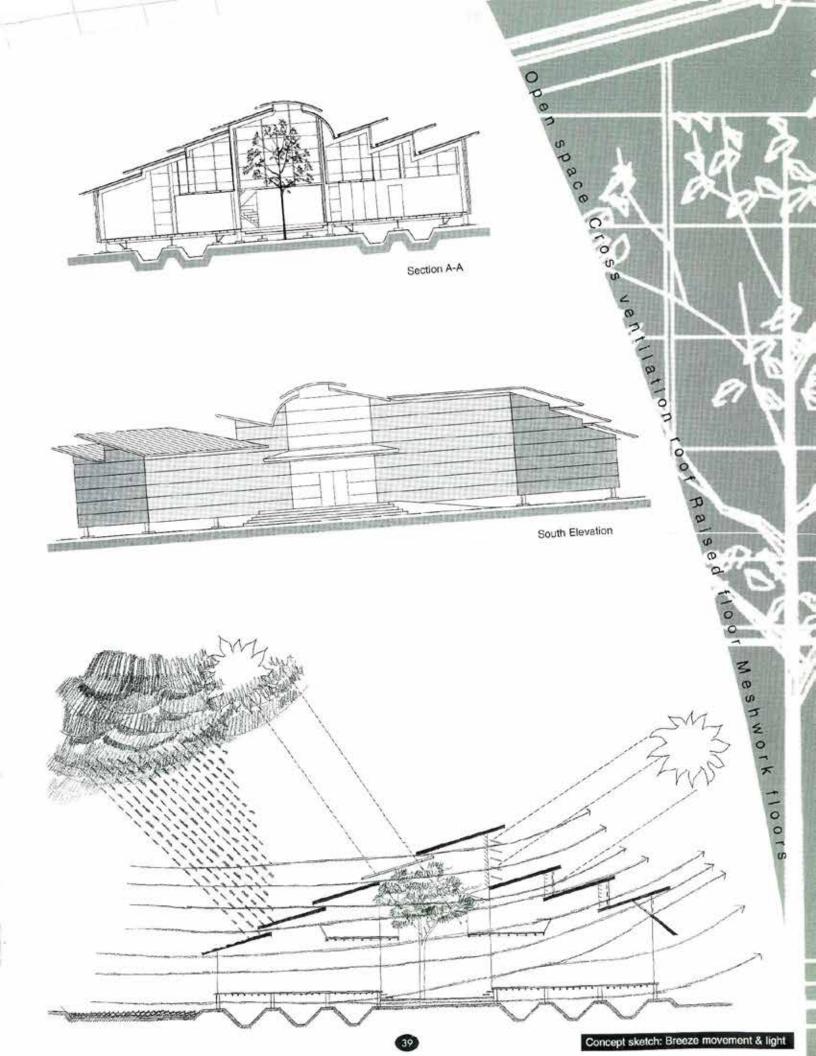


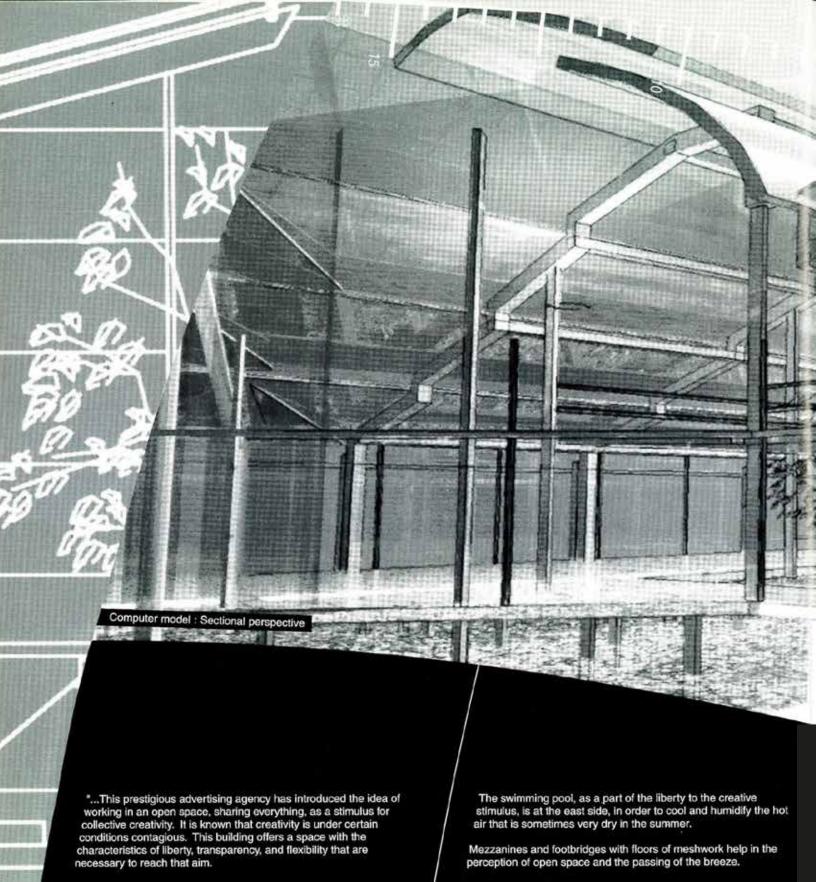






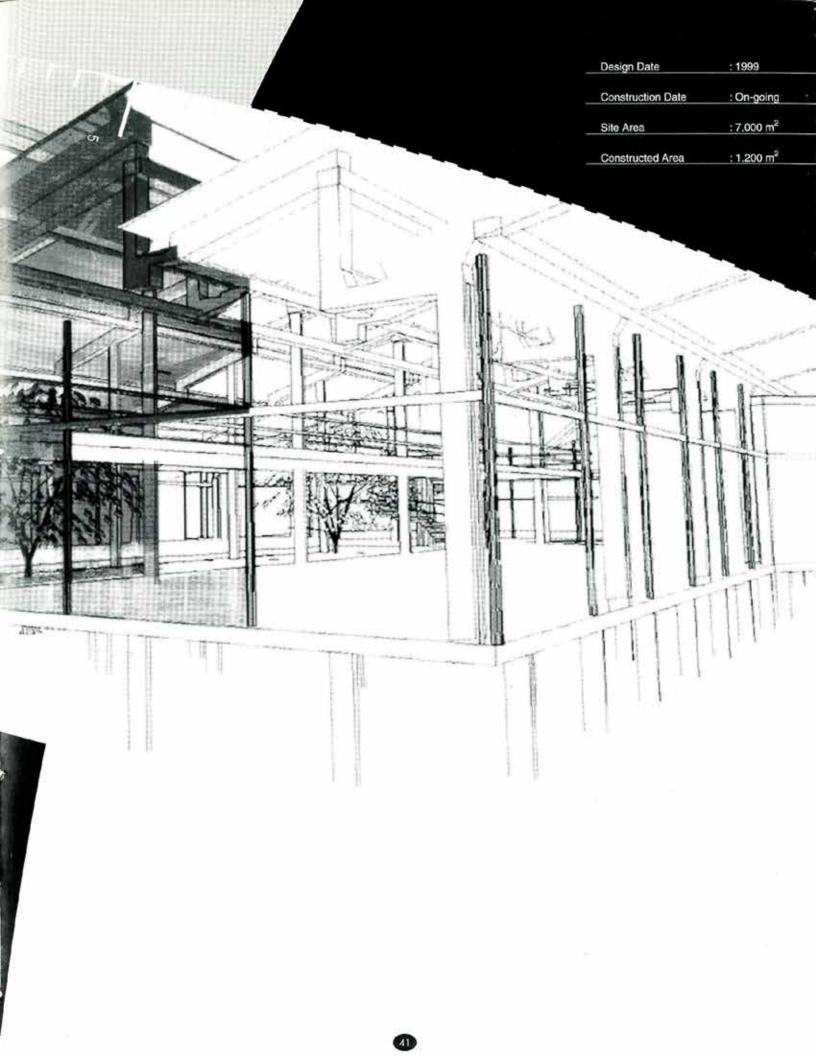


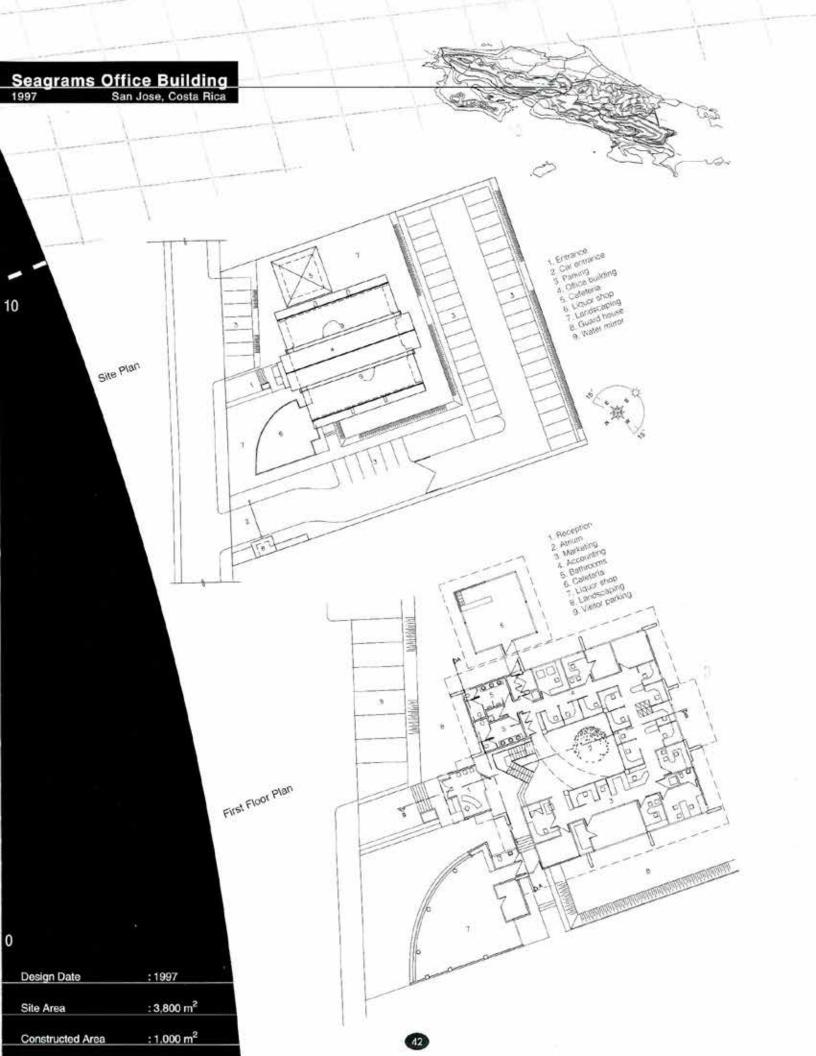




A building rising from the floor and facing the dominant breeze from the east has been suggested for this even lot. A specific study of cross ventilation roof systems defined this roof design which avoids air conditioning. The raised floor also contributes to the ventilation.

The vegetation of the central bar adds an element of naturalness and liberty and, at the same time, filters the light..."





East Elevation

"...The Liquor Company SEAGRAMS asked us to design its new headquarters in a spacious lot of 3.800 m2.

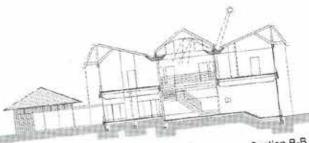
It was possible to conceive the building with a central atrium on two floors and with four facades.

As expressly requested, an air conditioning system was included. To reduce the cost of this equipment and its operation, the thermic load caused by the sun was diminished by means of sunshades and eaves in such a way that the windows are shaded.

The special design of the roofs, by means of large, internal gutters for the rainwater, introduced a reflex of the water in motion on the curved ceiling of the atrium. This is a symbolic homage to the raison d'être of the company.

An exhibition and sales room completes the design. This room extends toward the street in order to bring nearer the exhibition of the products.

The expression of this architecture stresses the roof and the necessary climatic protections, in order to avoid the incidence of the sun as well as to obtain an adequate illumination comfort by eliminating the dazzle due to the excessive exterior luminosity..."



Section B-B



June 21st 7:00 am



Ans 21st



June 2 let



Jone 21st (summer edition) 1.00 pm



8:00 am



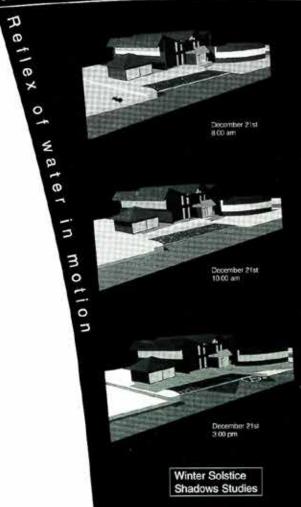
June 21st



June 21st



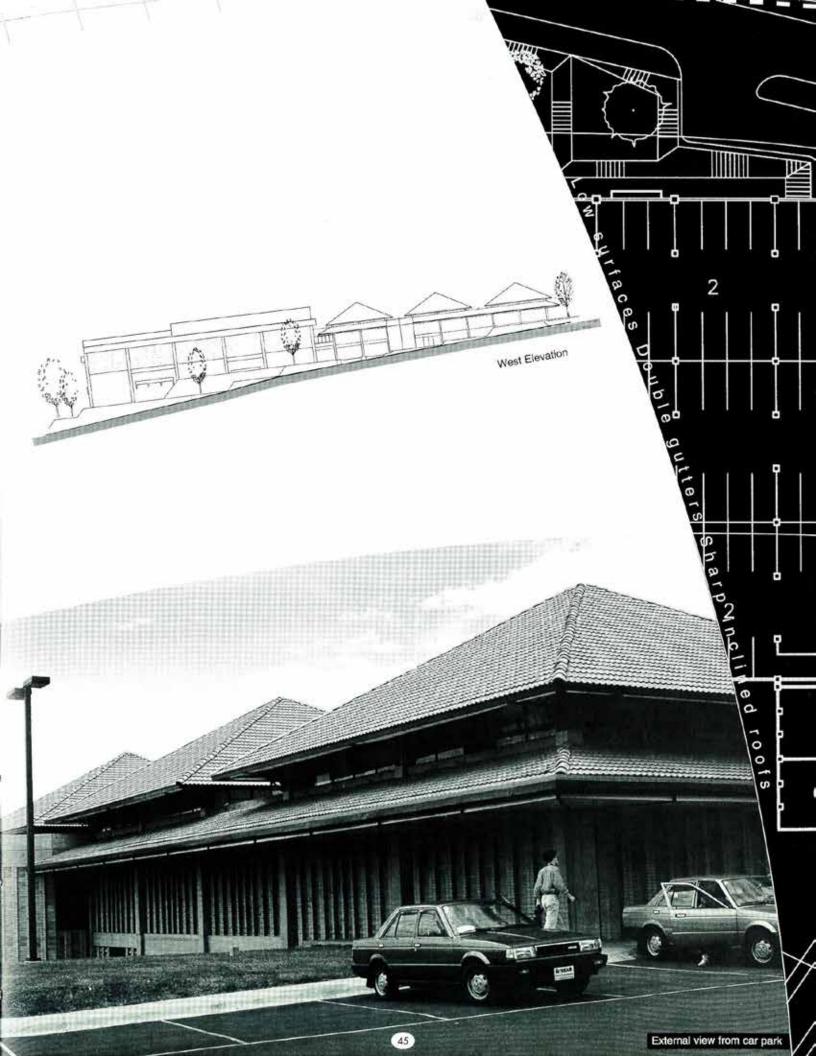
(summer salstice) 5:00 pm

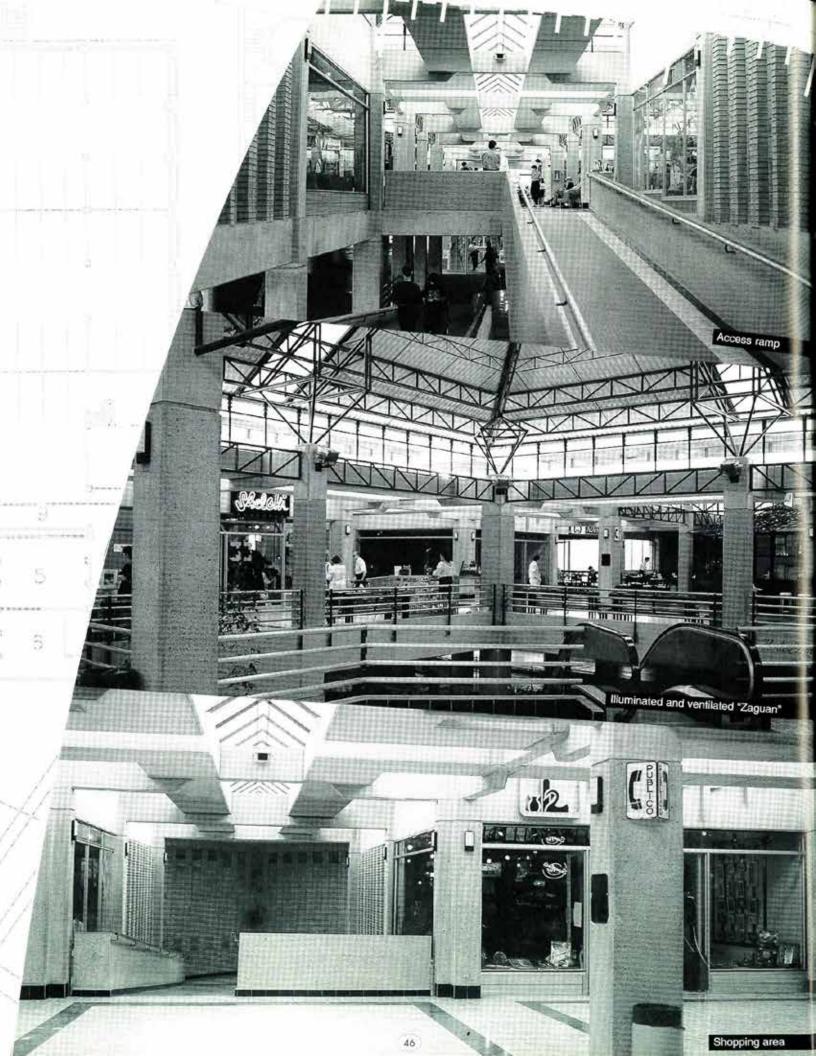


Summer Solstice

Shadows Studies







"...The problem posed by shopping centers in low-density metropolitan neighborhoods was addressed in this particular case as an opportunity to create a place for social encounters.

In a country with constant rain, social life must be protected from the sun and from the rain. Therefore large roofed areas are essential for social events. They can become extremely lively environments if the shops are orientated towards the interior.

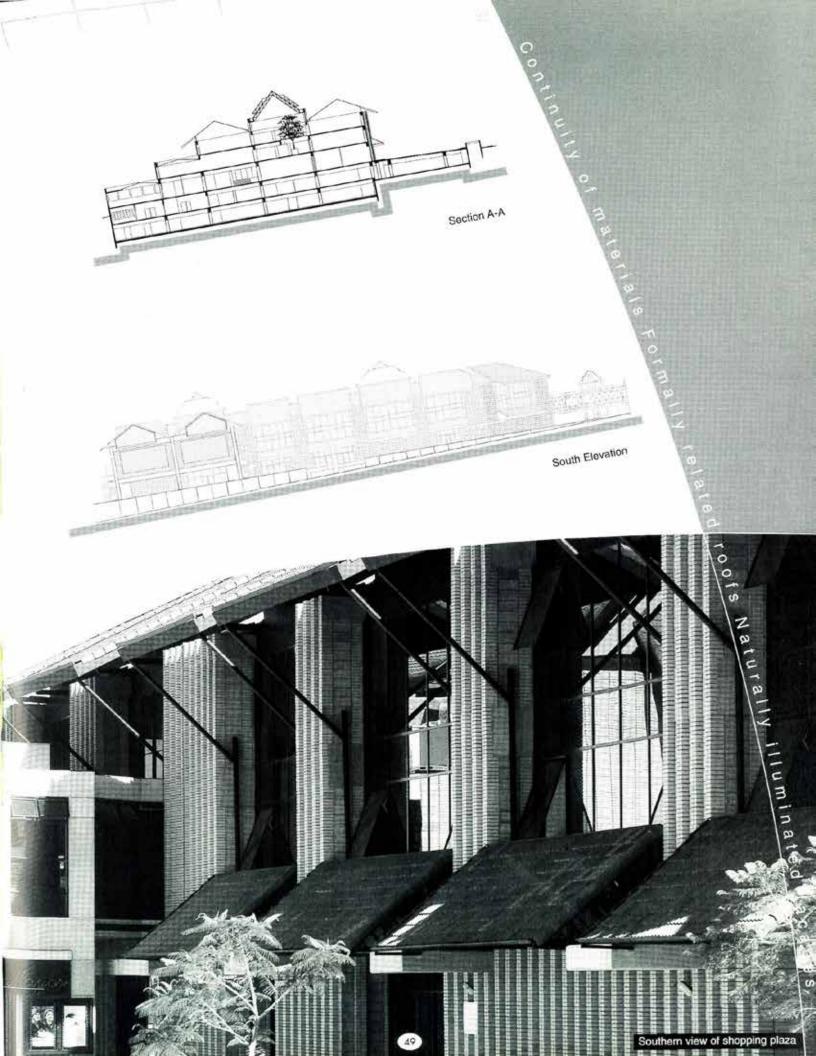
To remain faithful to the scale and the contours of the surrounding buildings we designed low surfaces circumscribed by double gutters. The extended facade and deep gutters of colonial houses was reproduced.

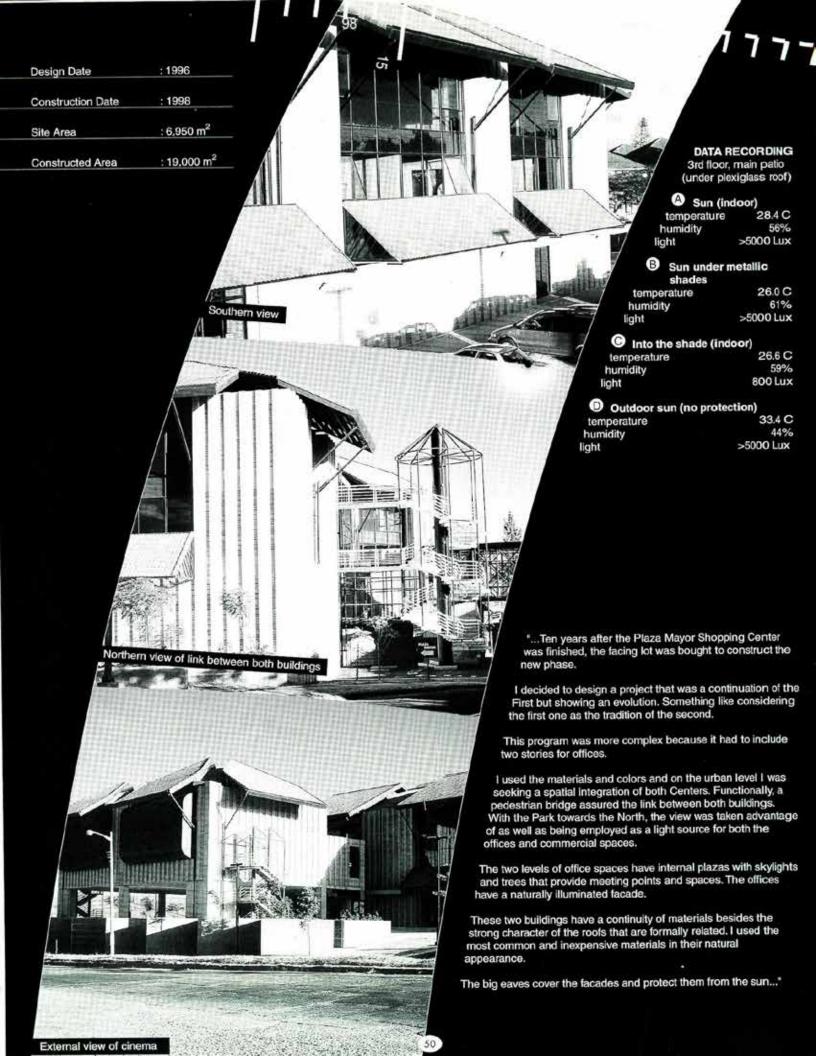
The sharply inclined roofs permit the rapid evacuation of rainwater. We therefore fractioned the building into 9 pyramids with internal concrete gutters. This is another element we retook from colonial architecture as the "zaguanes" were transformed into pyramids.

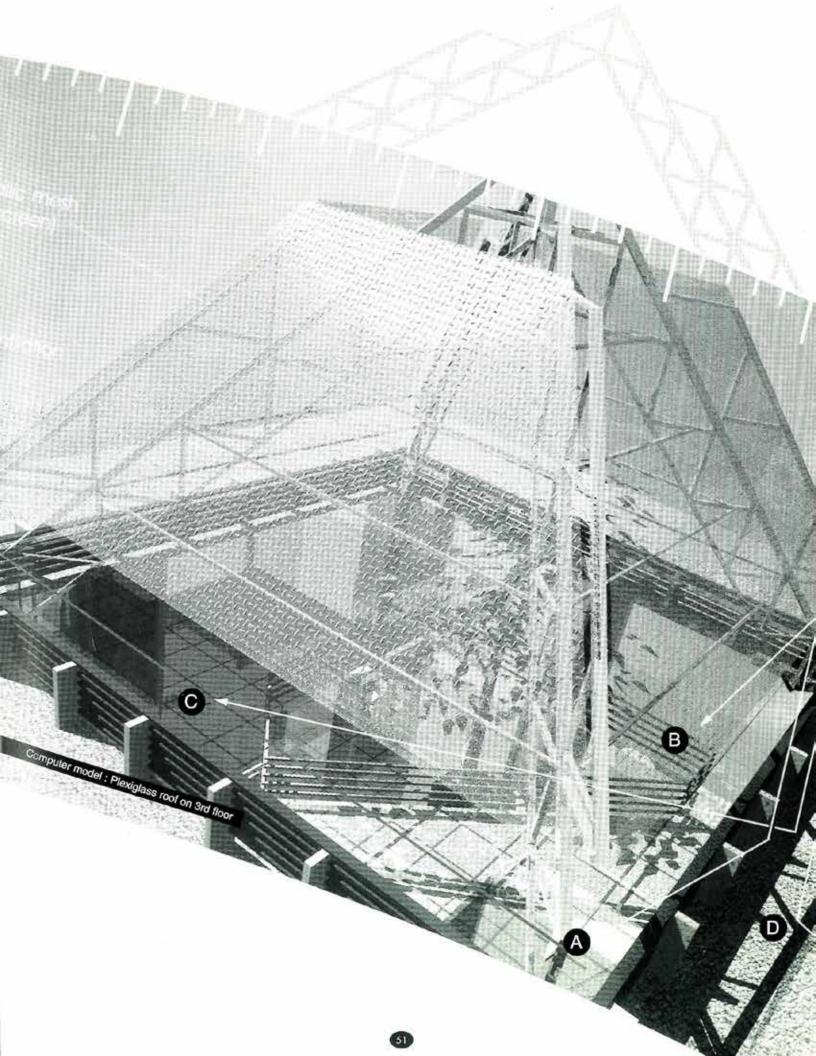
Natural light is a fundamental element in the design of internal space. Transparent and unobstructed spaces give the patrons a panoramic view of the entire shopping center. Ventilated and illuminated interiors thus become agreeable..."

Brick and blocks mixed walls



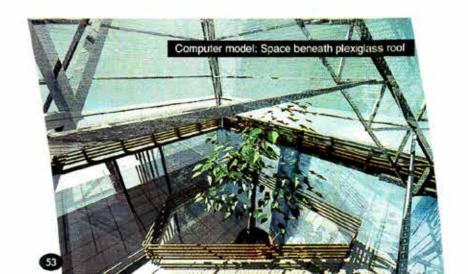


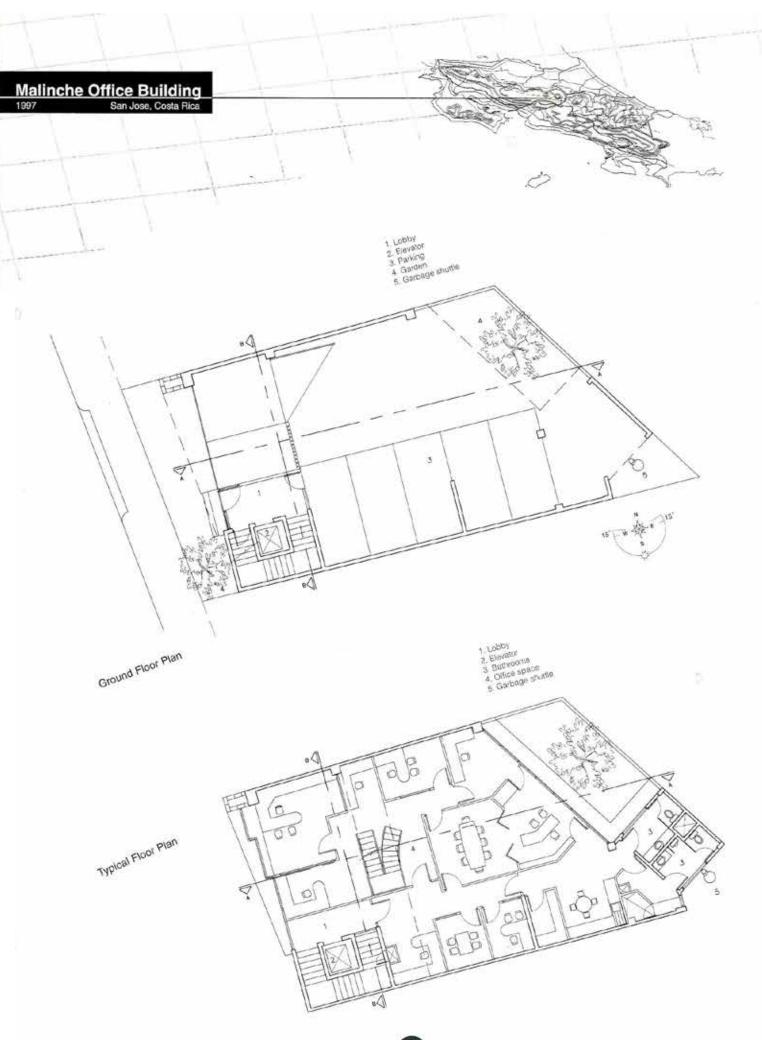


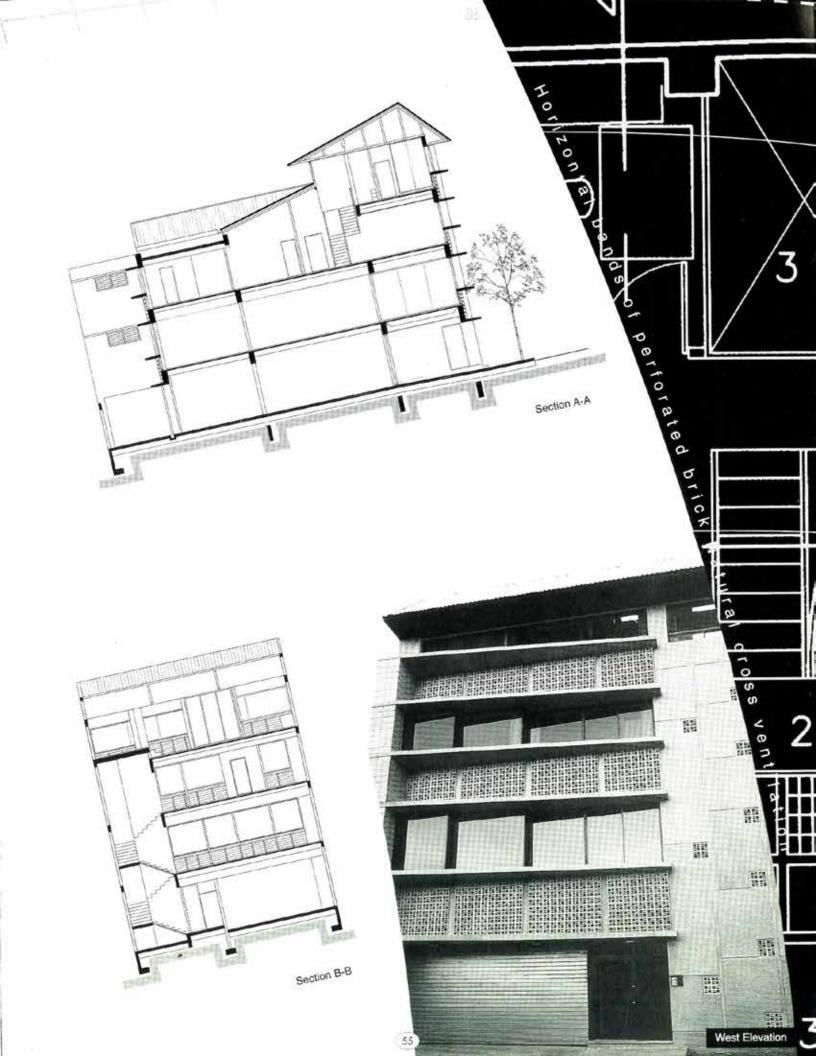


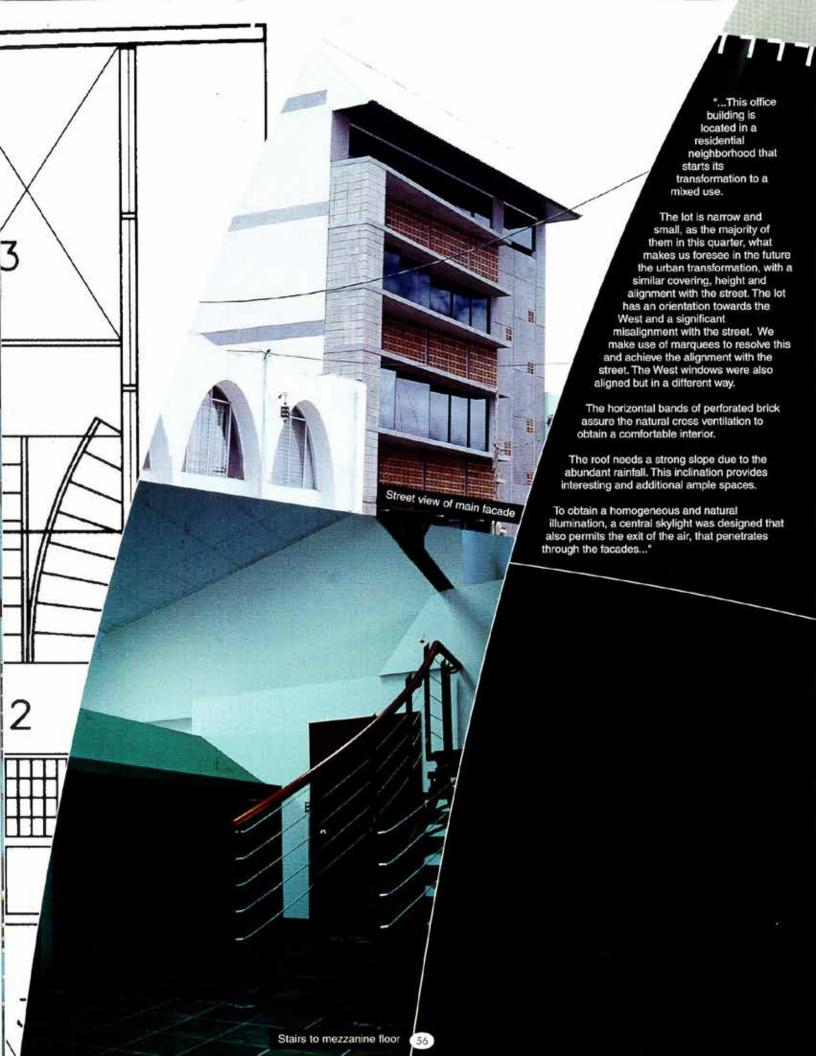




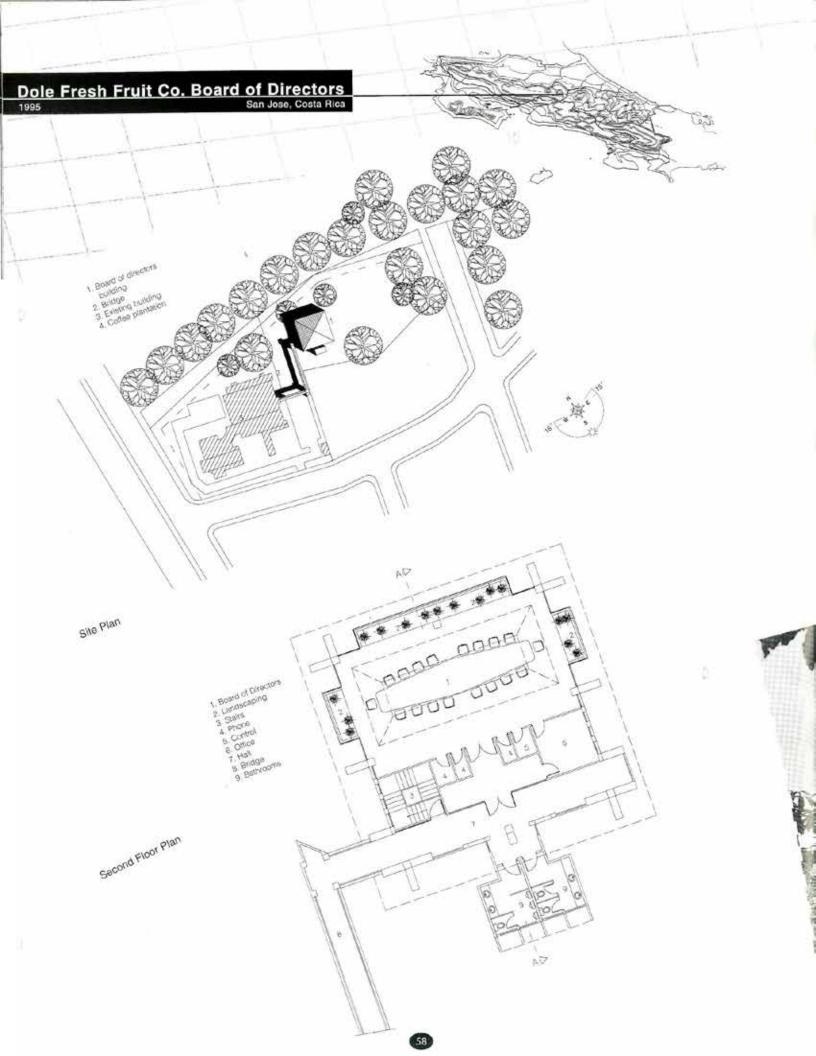


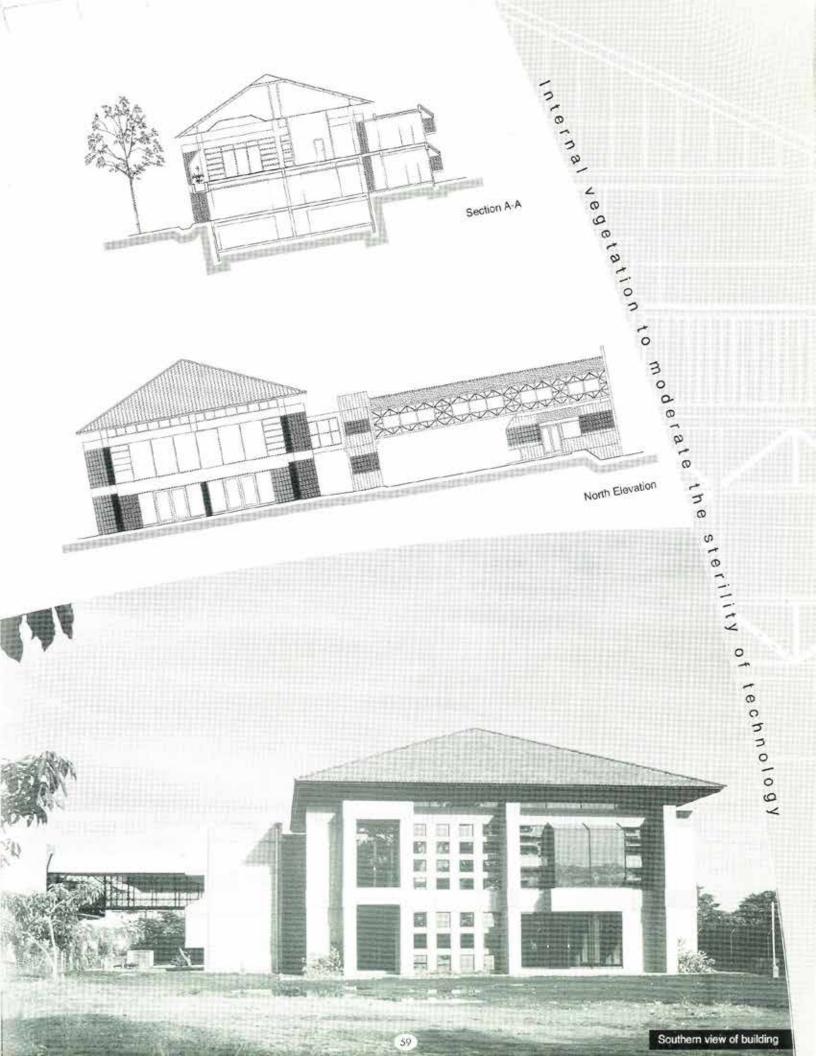






Design Date : 1995 Construction Date : 1997 Site Area : 290 m² : 720 m² Constructed Area Horizontal bands of perforated brick and glass panels in main facade : 1 ä 24 57 Interior view of horizontal bands of perforated brick & glass panels

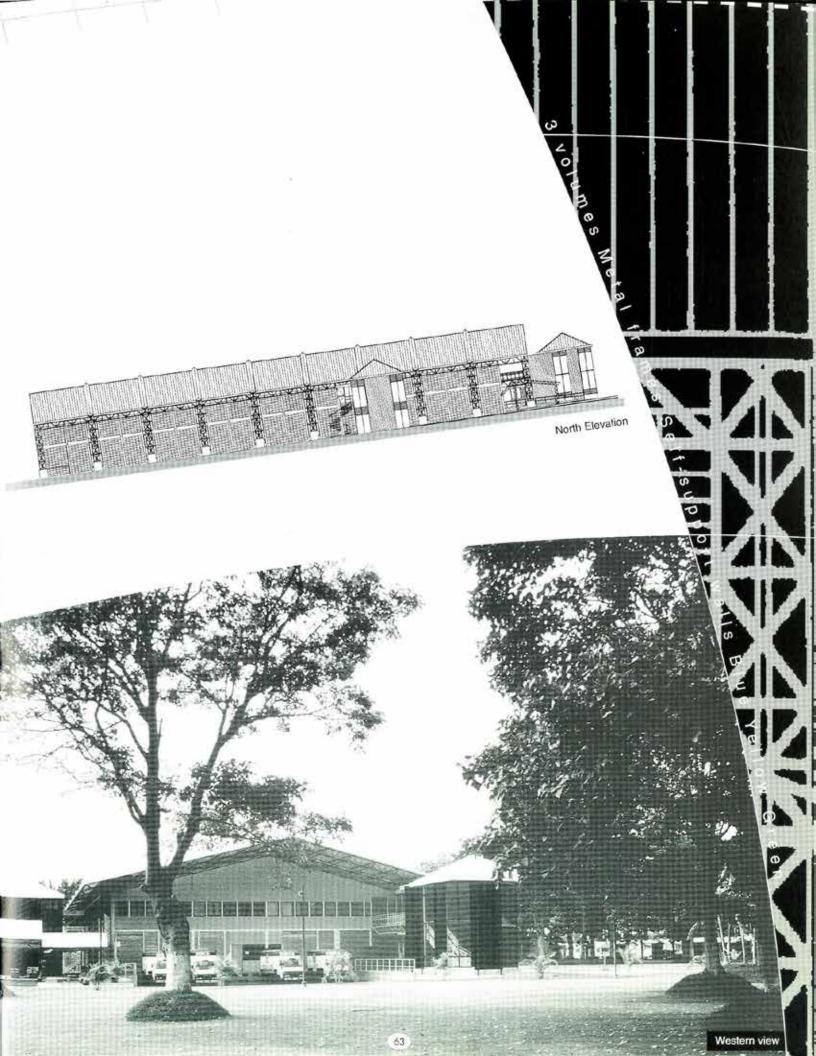






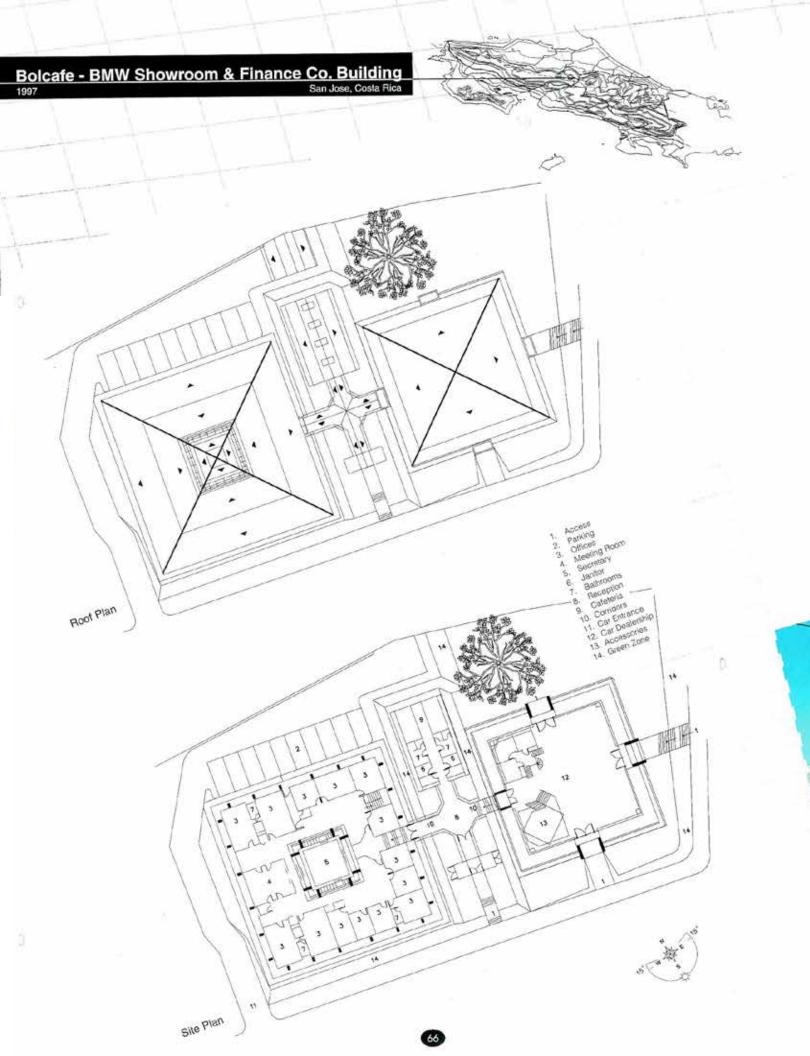


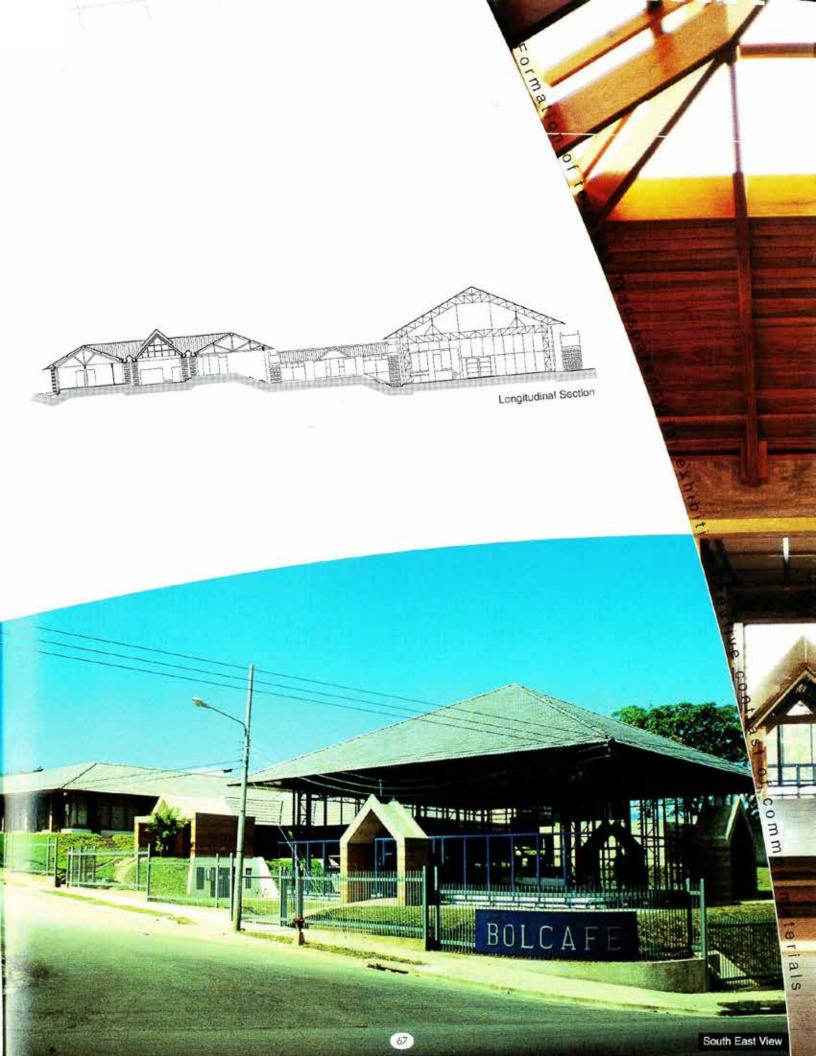














accentuated by a triangular portico constructed at street level. The two axes of circulation meet at the reception and incorporate the separate

To unify the ensemble, long yet simple tile roofs without gutters are used to accentuate the sharp edges and the falling threads of rainwater. Furthermore, the formal repetition of the triangular porticos contributes

wings of the building.

to the unity of the building.



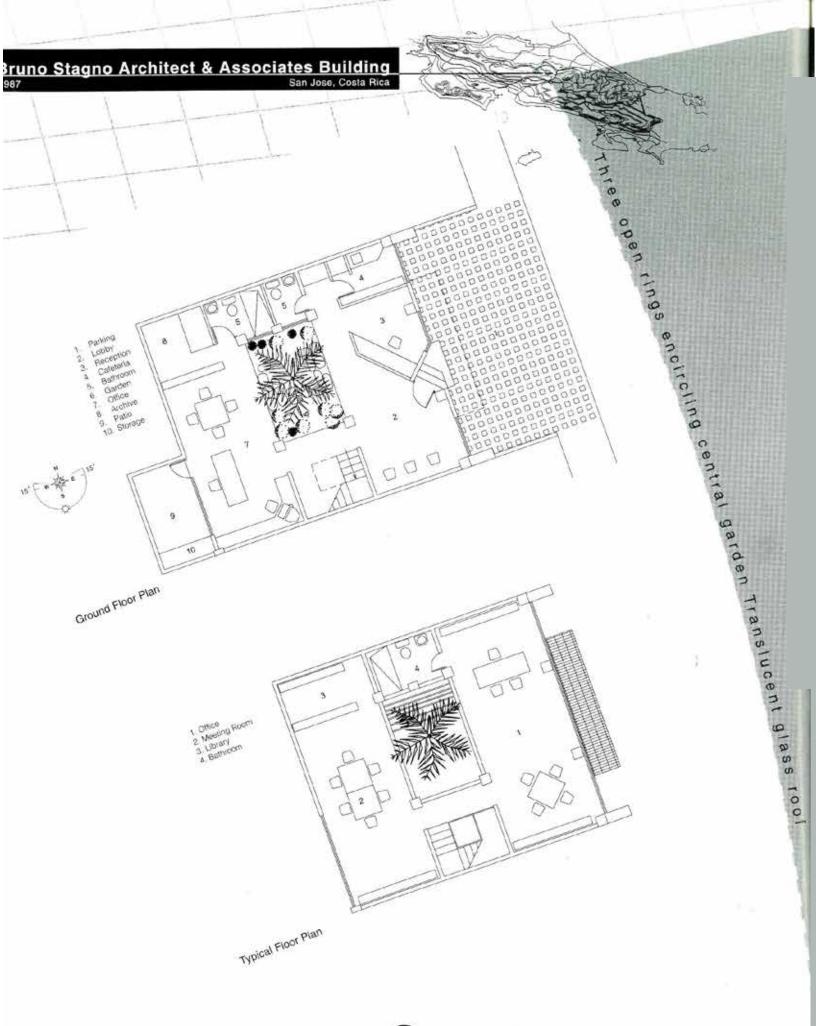


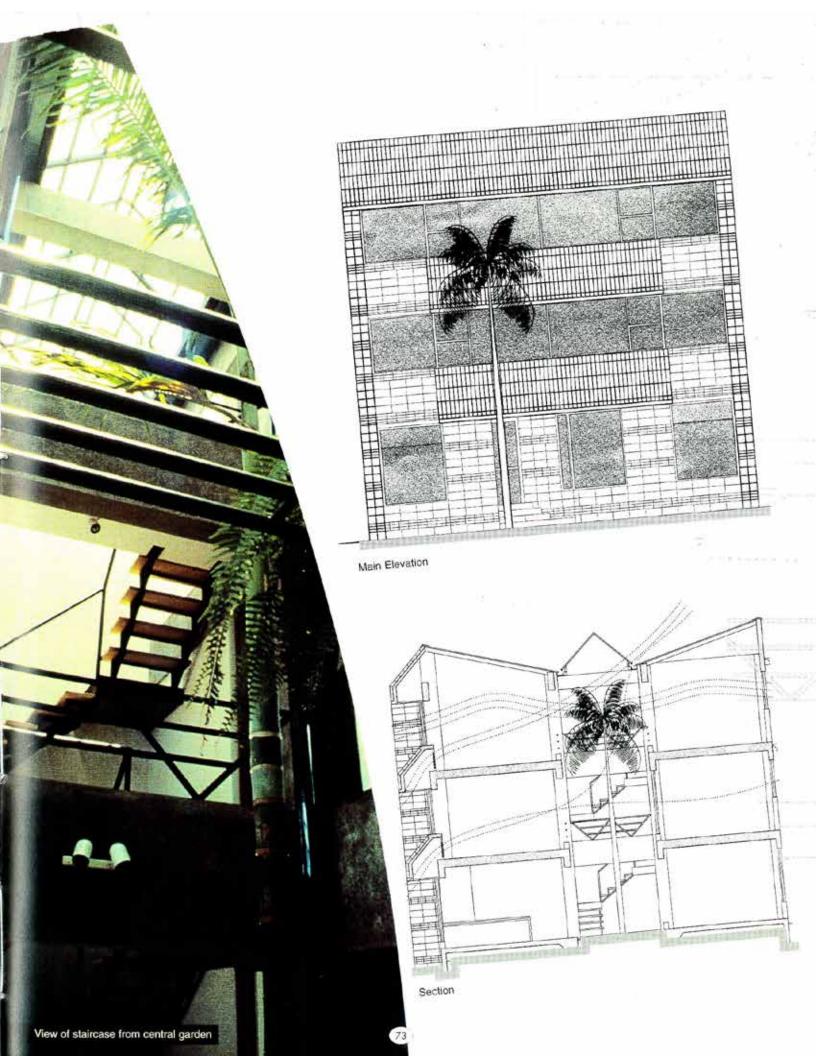


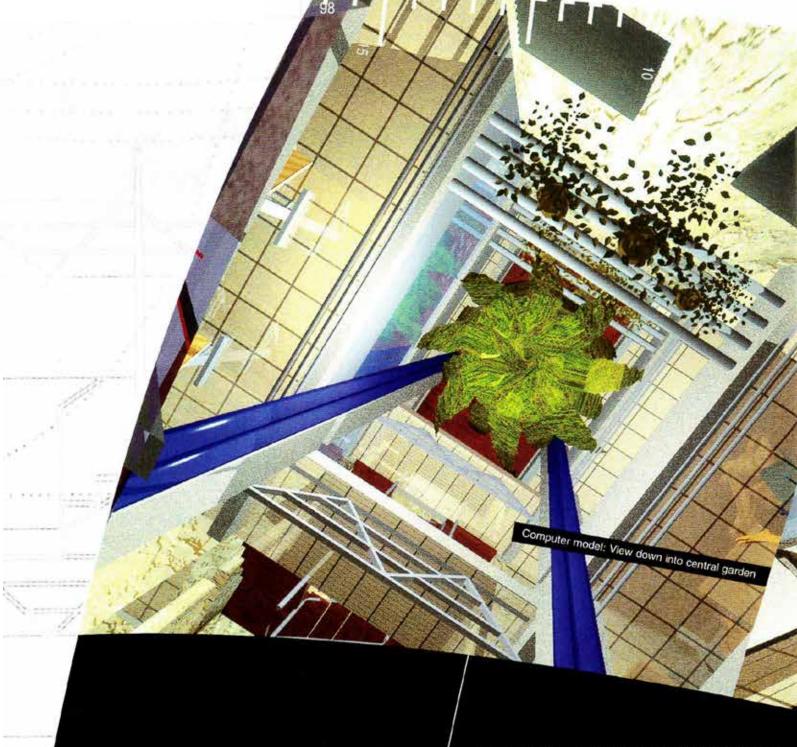
The materials used, although frequently employed and nexpensive, were applied creatively to enhance their characteristics. Both the gray block and the red brick are brusque and opaque, but in joint application with the smoothness and brilliance of metal and glass, an interesting contrast arises which awards dignity and reinforces the appearance of the mentioned materials.

The building section portrays a solution for proper and sufficient ventilation and for the efficient drainage of rain water. Within the BMW sales store, the cross-ventilation is natural and permanent. On the other hand, the consulting firm's offices are air-conditioned, with the exception of the central lobby which is ventilated through the base of the multi-purpose pyramid and through the ring of light. The section portrays a volumetric organization in which the structural columns were designed behind block and brick columns in order to balance the visual weight of the roof and create an agreeable proportion of spatial emptiness and fullness.

The result of the architectural design is a building that fulfills various functions and ion of various materials with a clear sense of unity and harmony while fully satisfying the functional and climatic exigencies of the country...







"...Within the confines of a lot measuring 9.50 by 15 meters, I planned an architect's office in three open rings (three levels) which encircled a central garden. The central garden would be dominated by a 27-foot palm tree vertically cutting through the office and surrounded by ferns at its base.

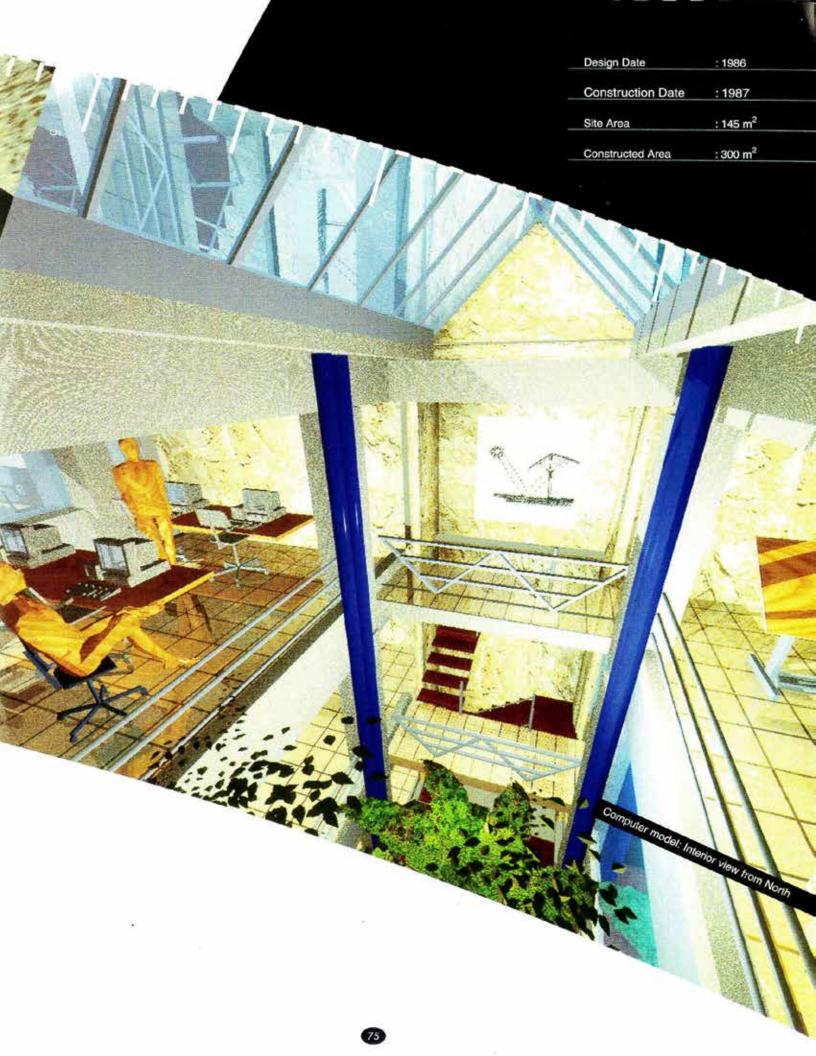
Constructed with simple domestic materials, the exterior accentuates the simplicity and purity of the materials through a colorful linear alternation of the elements. This horizontal juxtaposition of the gray block and the red brick enlivens the facade.

In the interior, the cold painted metal is attenuated by the warm presence of concrete, creating an interesting contrast in harmony with the spatial organization of the office.

A translucent glass structure mounted over the central garden illuminates the entire office with the subtle light that punctures the incessant cover of white clouds that envelopes San Jose.

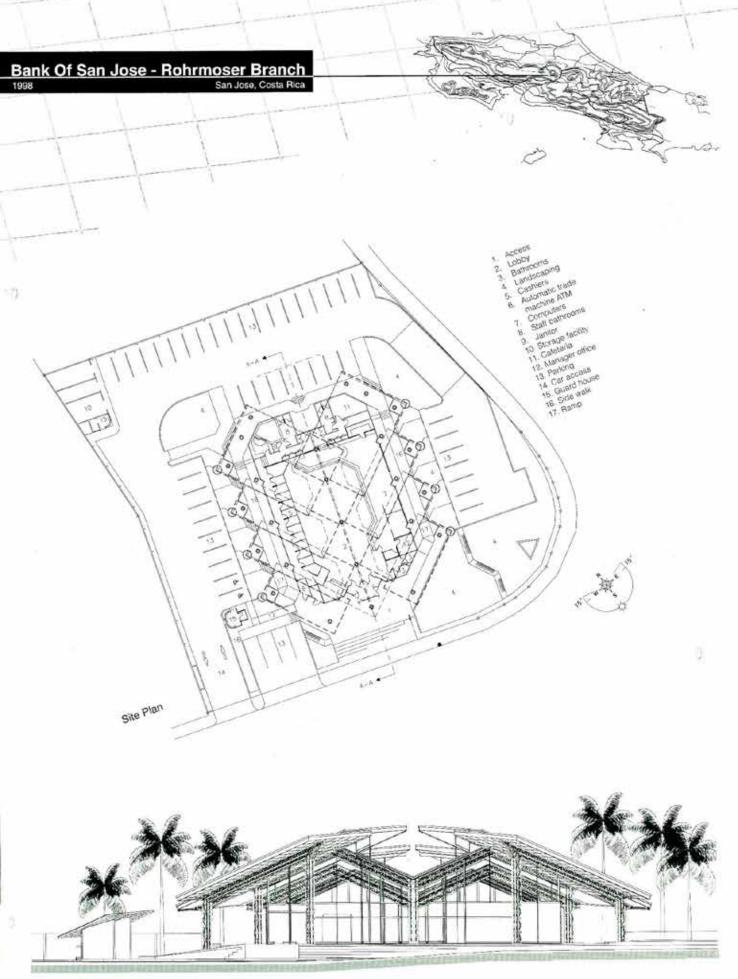
The glass structure allows the permanent entrance of a breeze, which ventilates and freshens the office. The breeze sways the leaves of the palm tree.

Access and circulation to the upper levels is possible through a staircase located at one end of the ring; the bathrooms are located in the opposite end..."

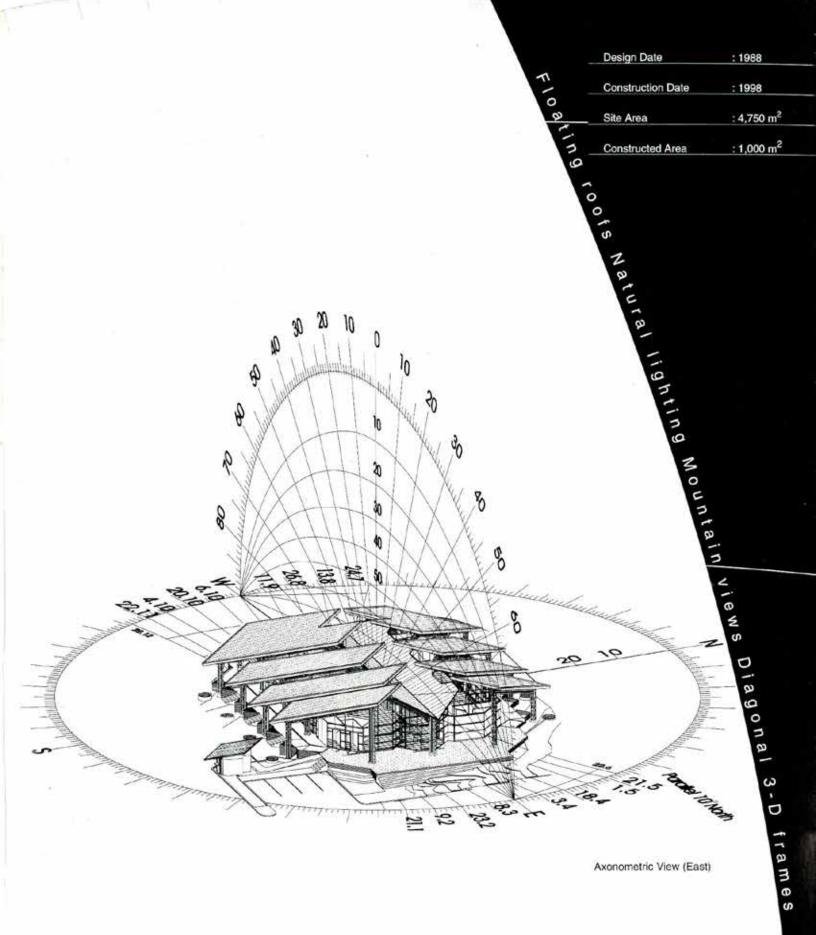


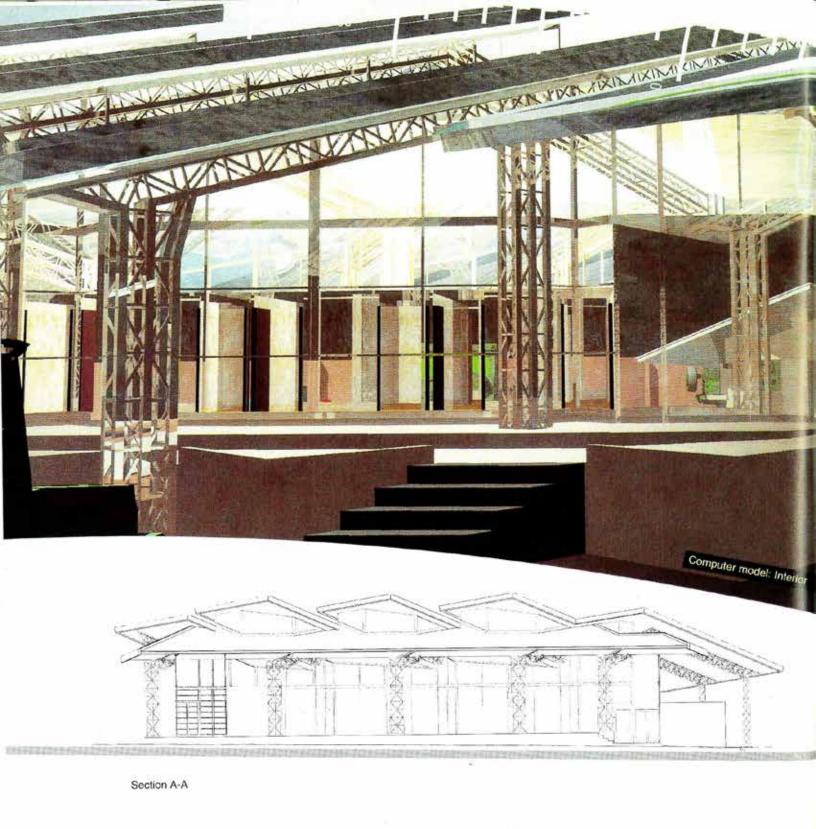


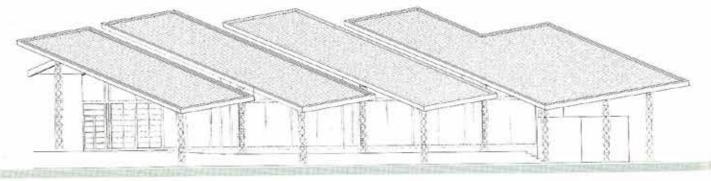


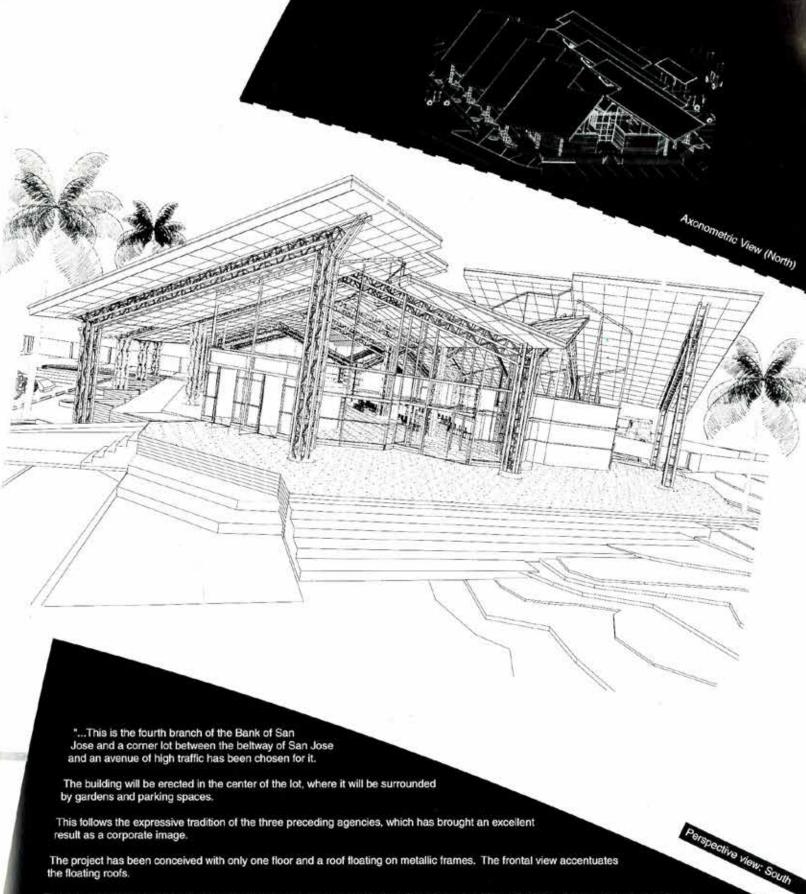


South Elevation









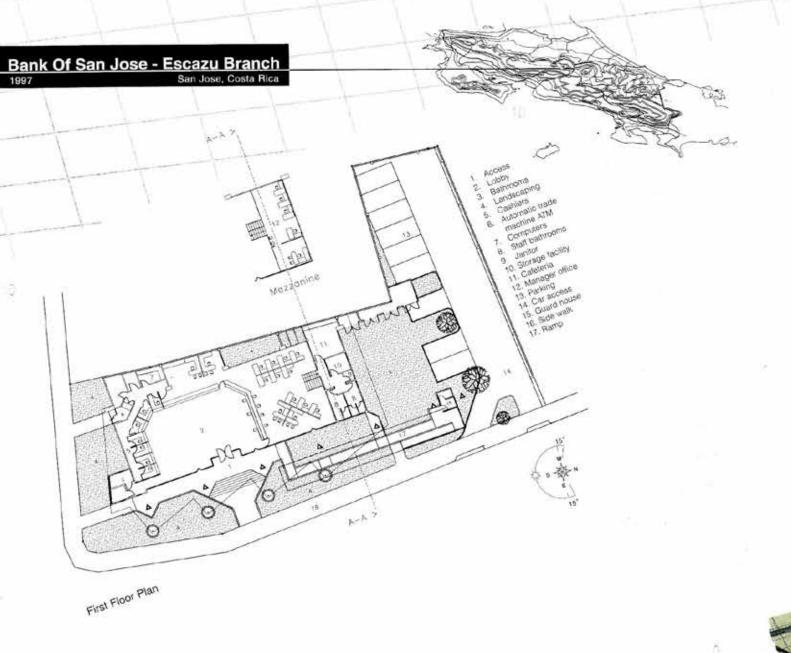
The project has been conceived with only one floor and a roof floating on metallic frames. The frontal view accentuates the floating roofs.

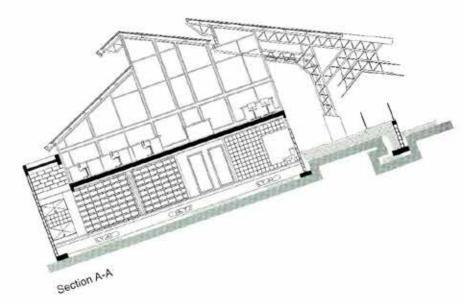
The volumes of the blocks and bricks of the background have been designed at a lower level for maintaining the view from the interior to the mountains of the north.

The scales of the roof permit the entrance of light through controlled opening, in order to obtain sufficient illumination inside and to avoid artificial lighting.

The structure consists of three-dimensional frames that are diagonally joined to obtain a reliable stability.

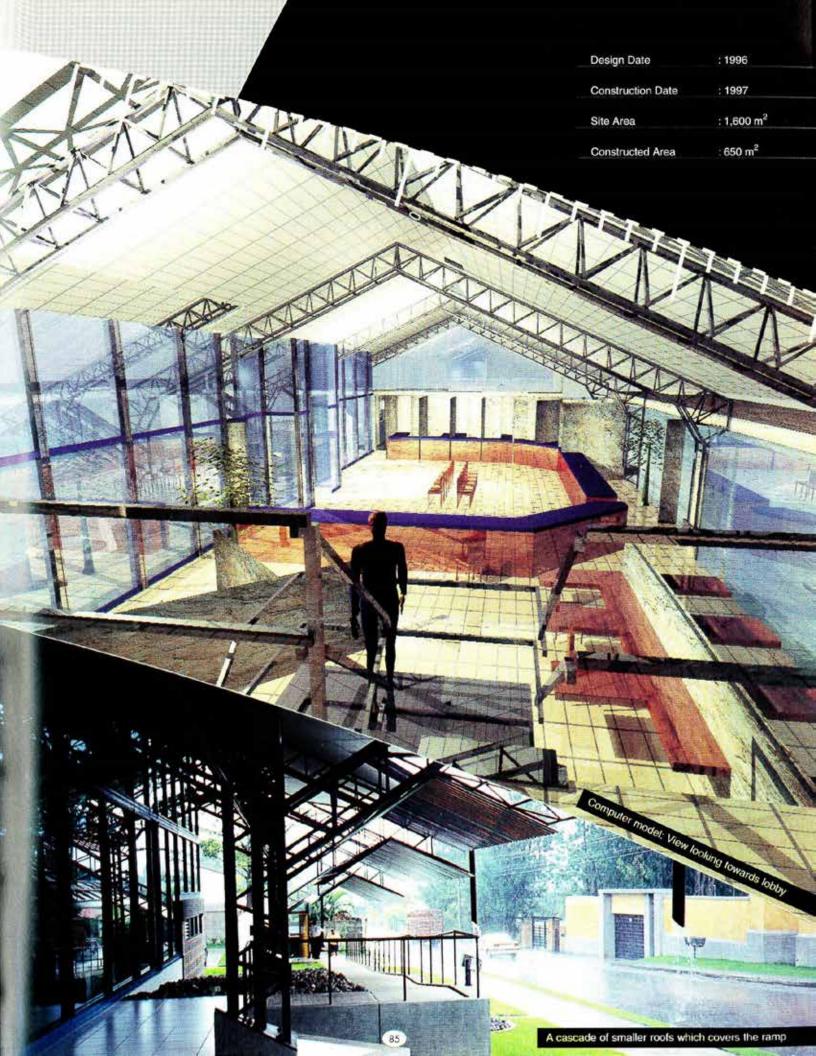
The scales of the roof and the diagonally joined frames are arranged according to a spatial north-south axis that is stressed by the big central gutter that divides the space into two aisles...

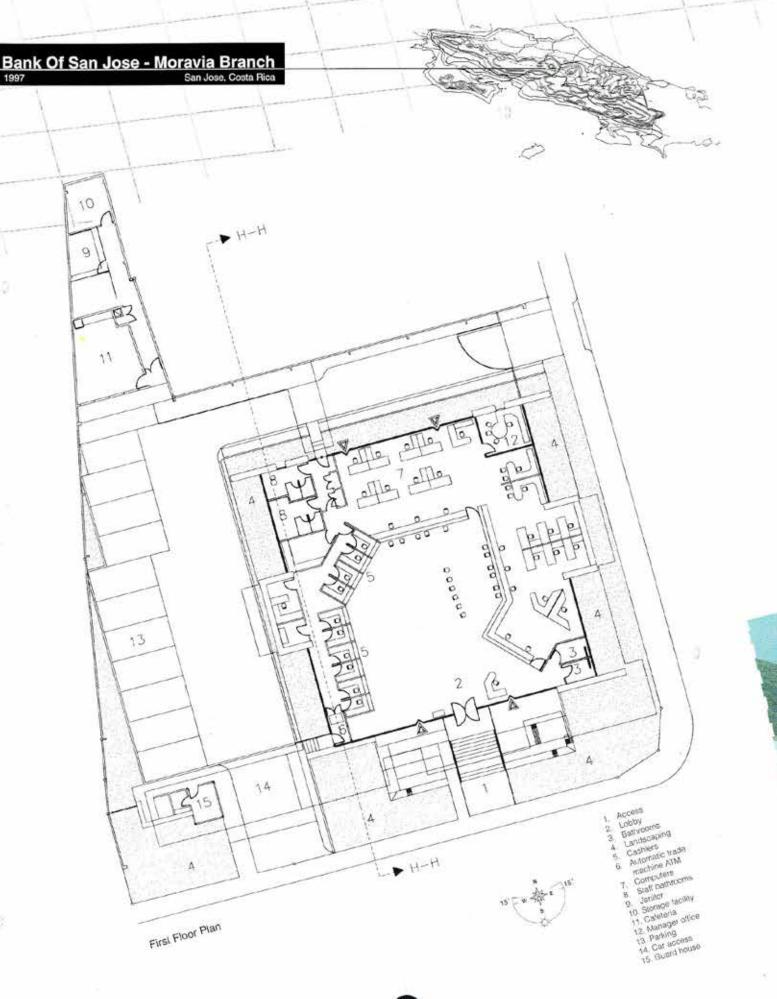


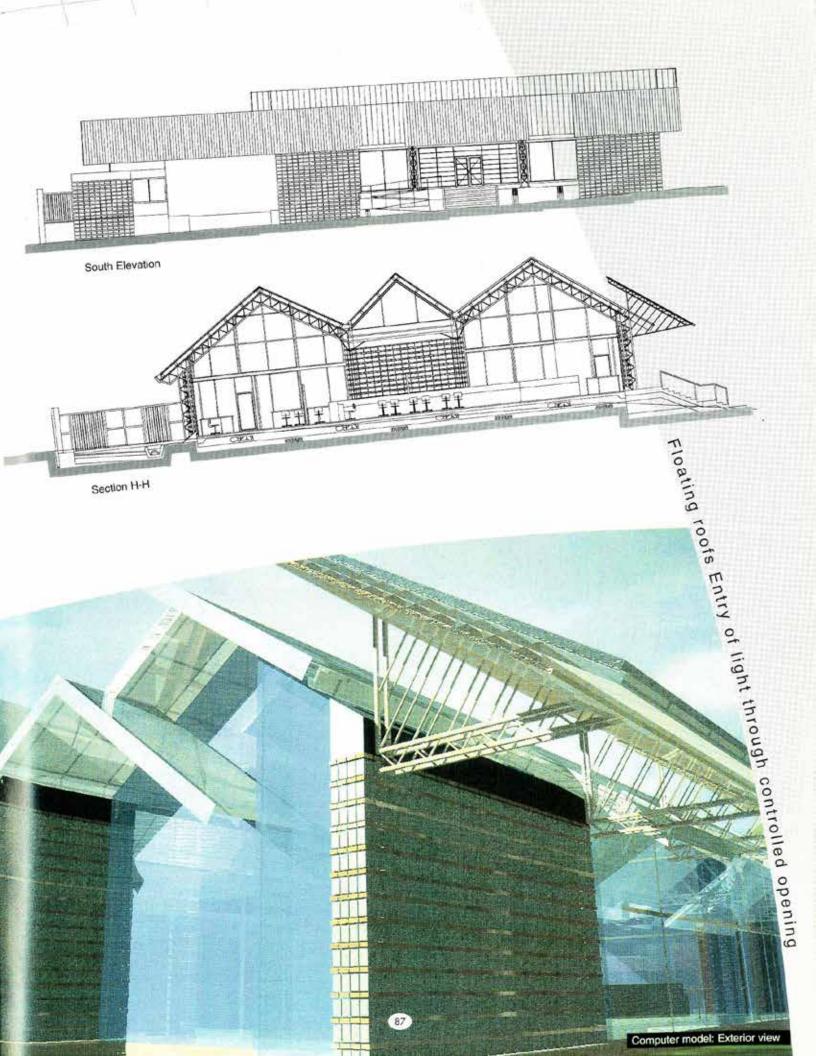


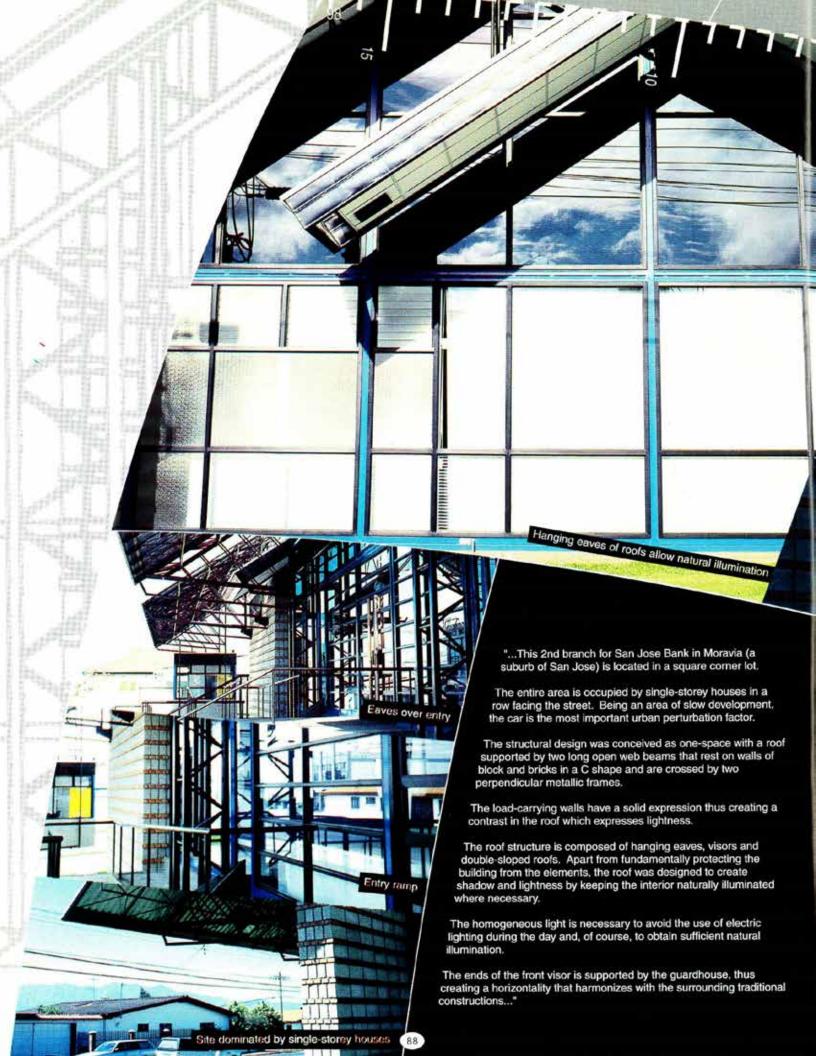


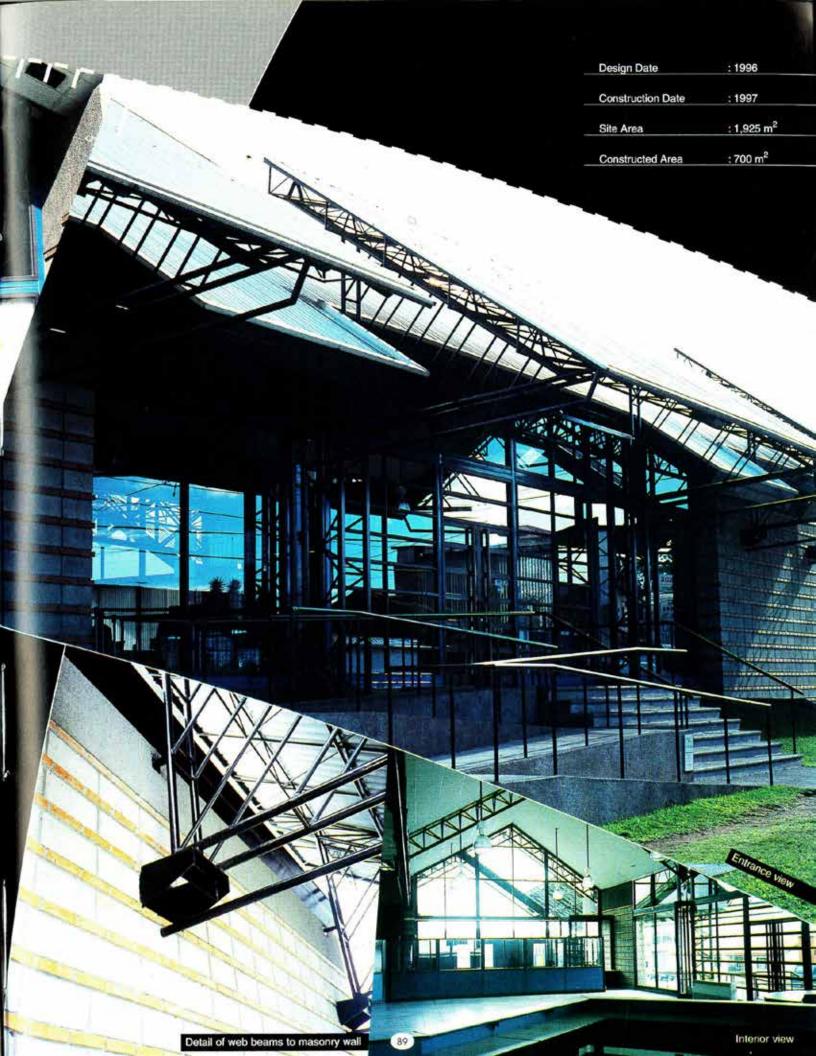


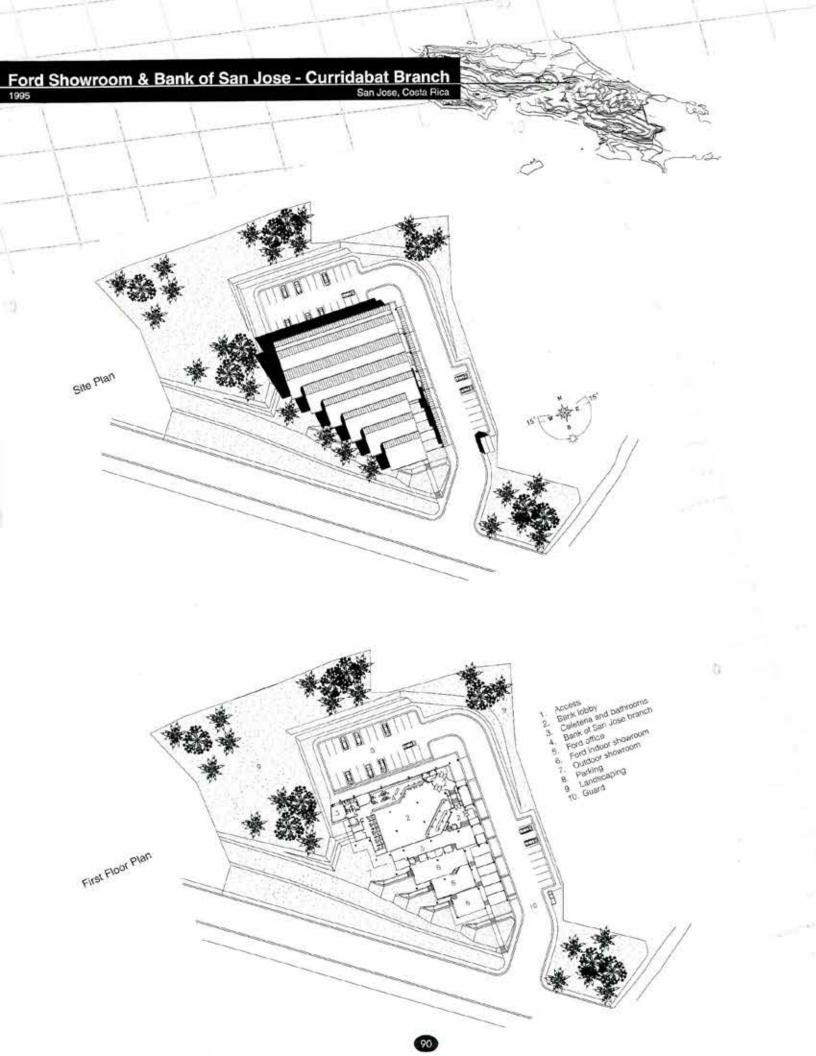


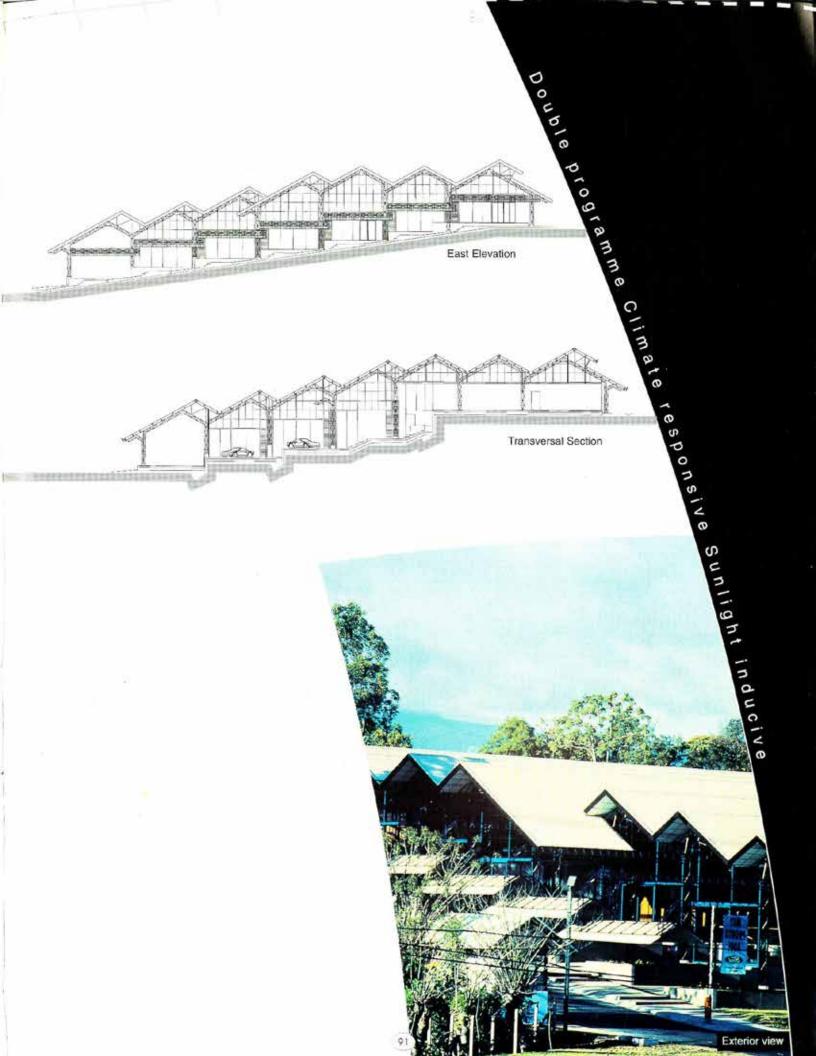


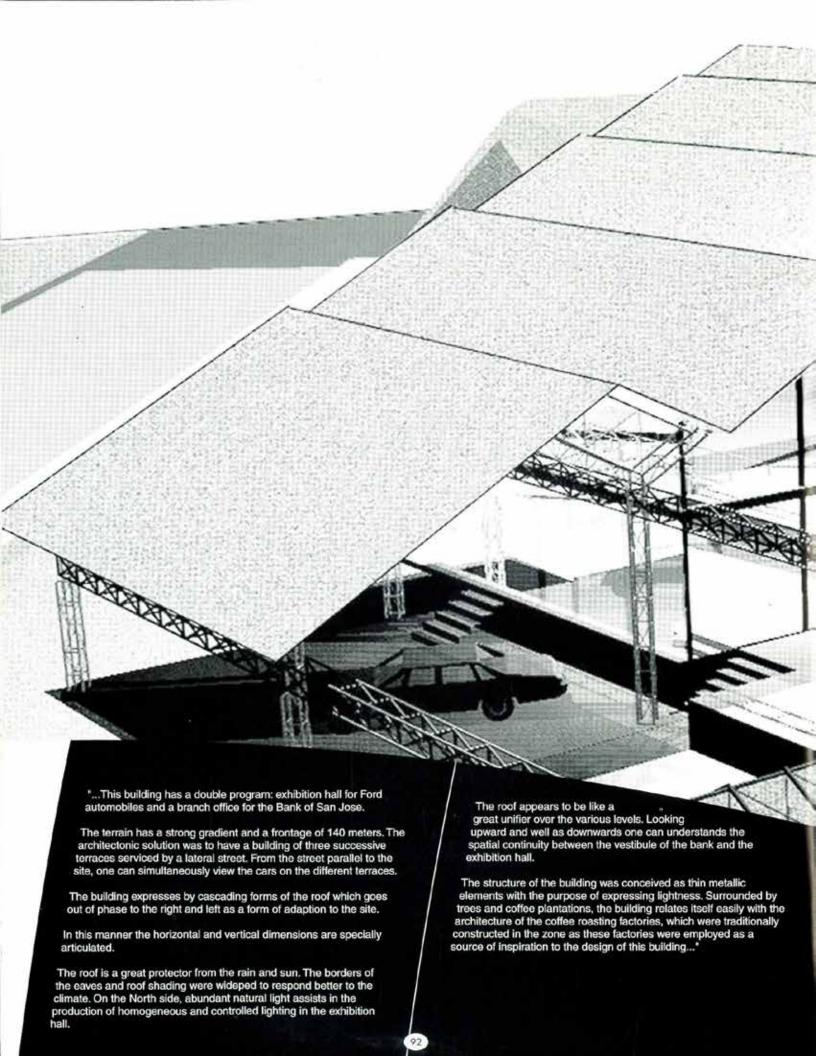


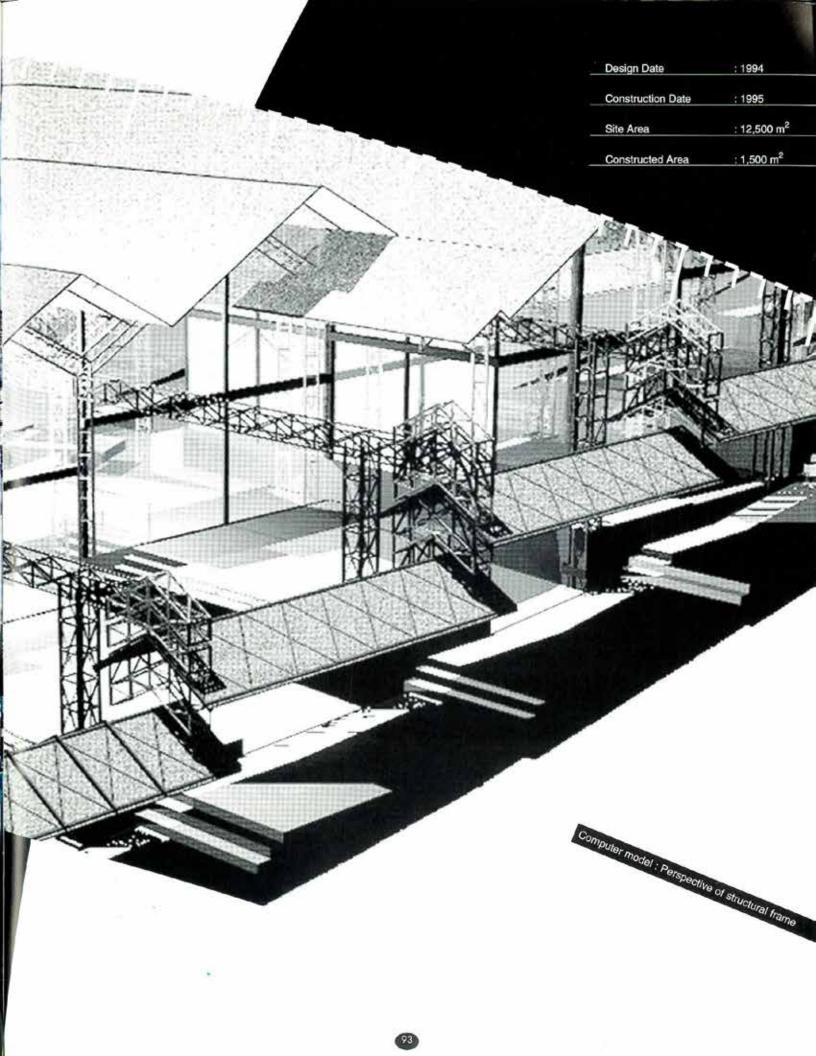




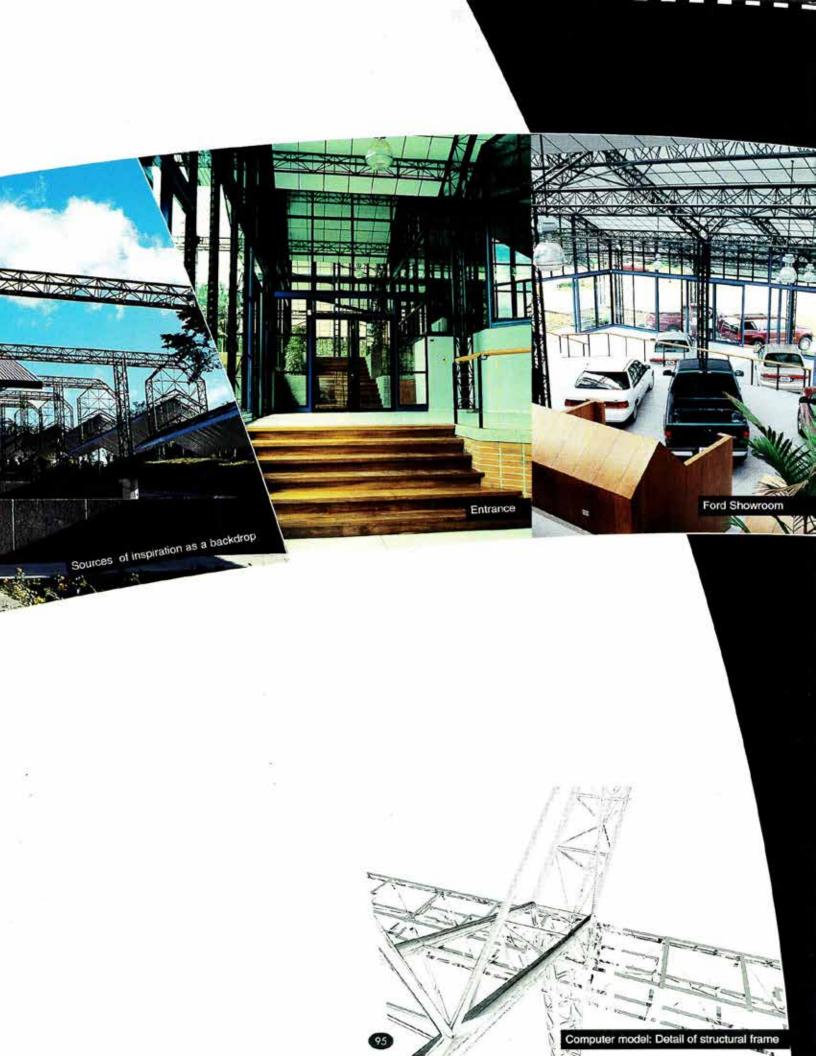








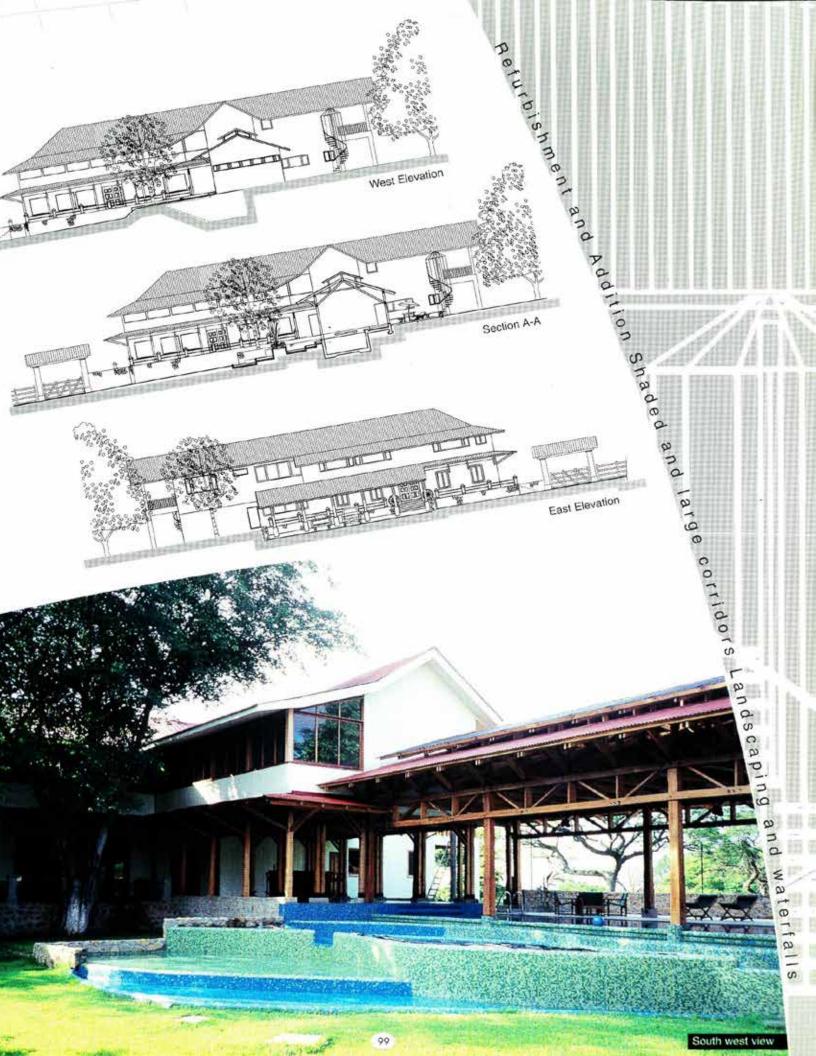




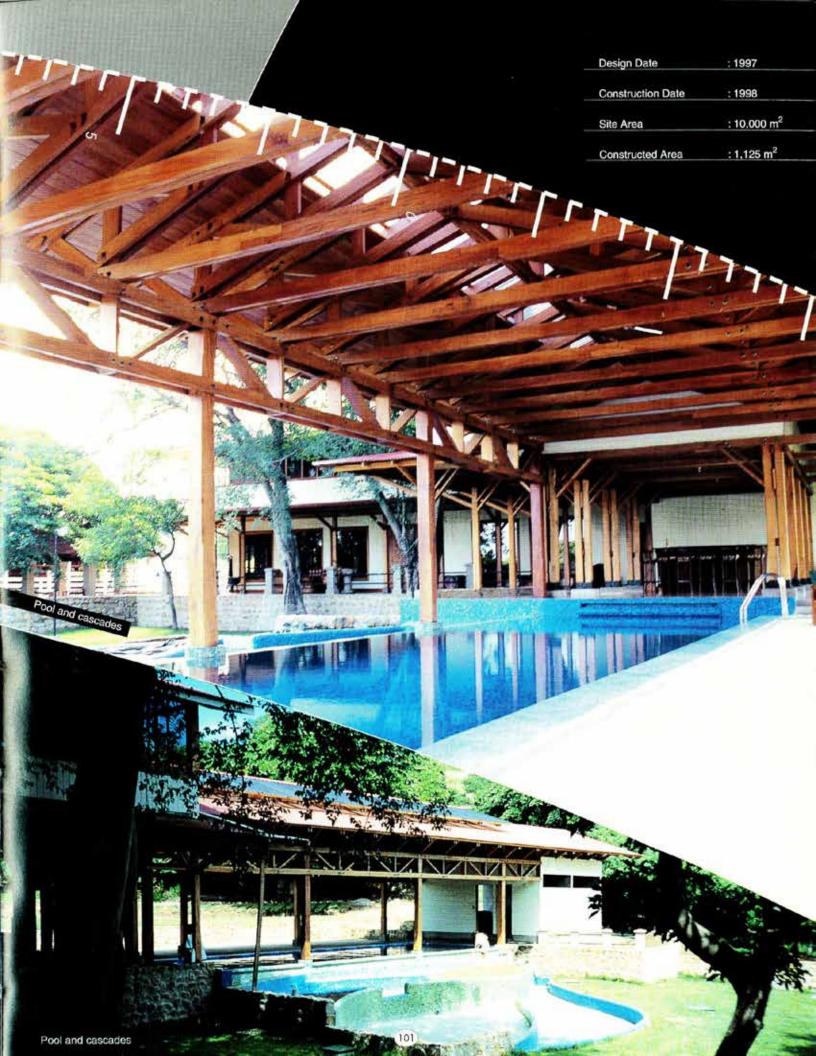


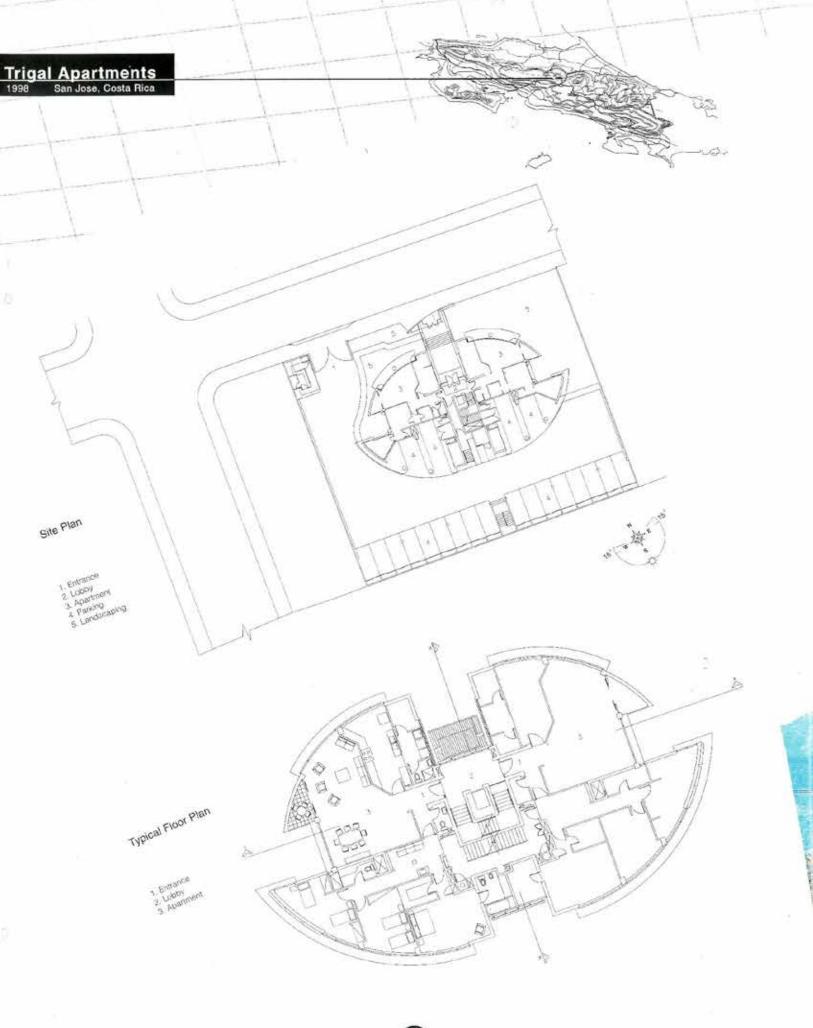




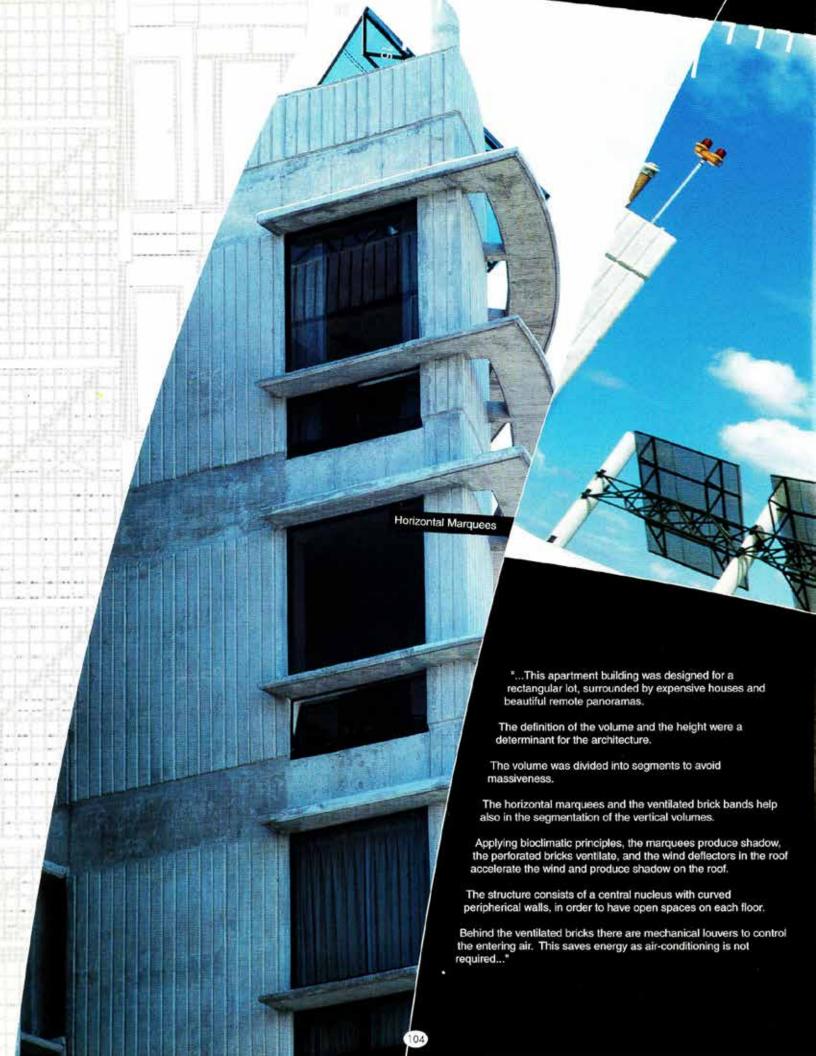








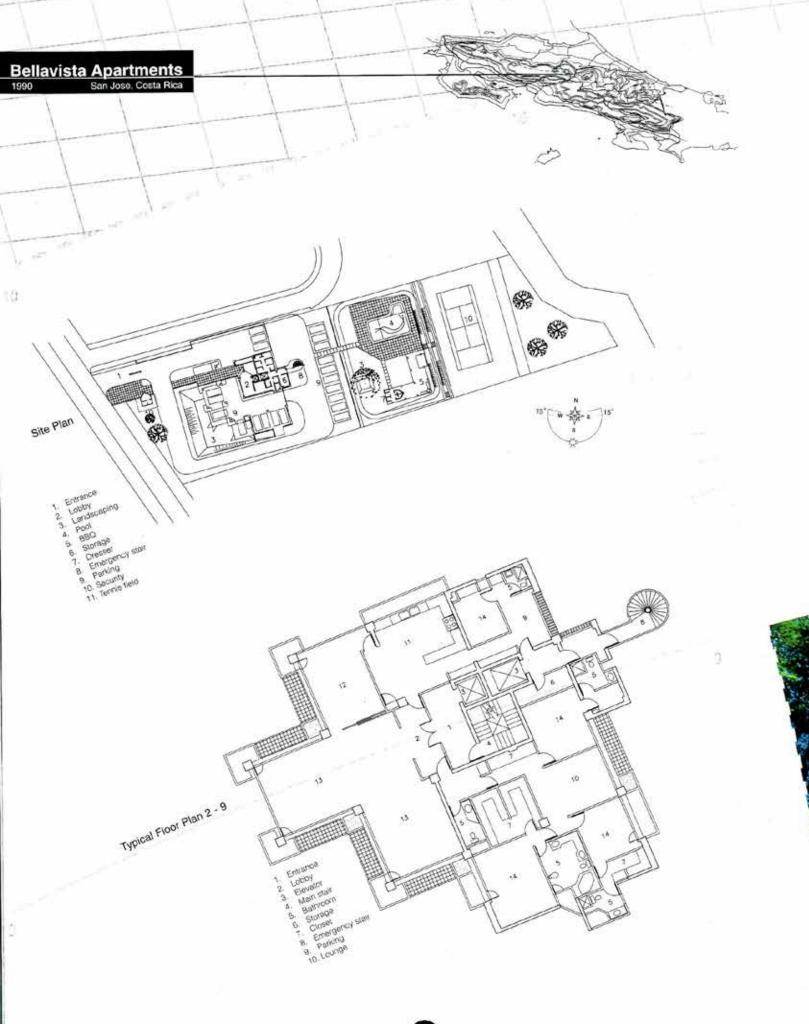


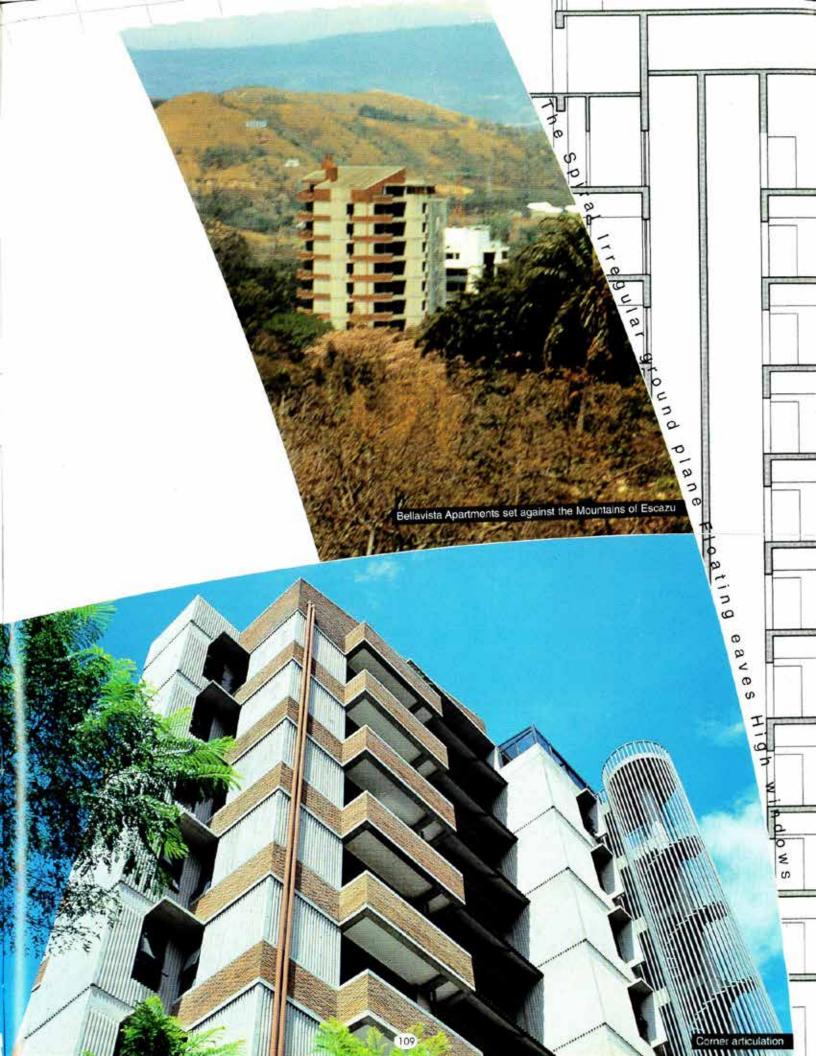




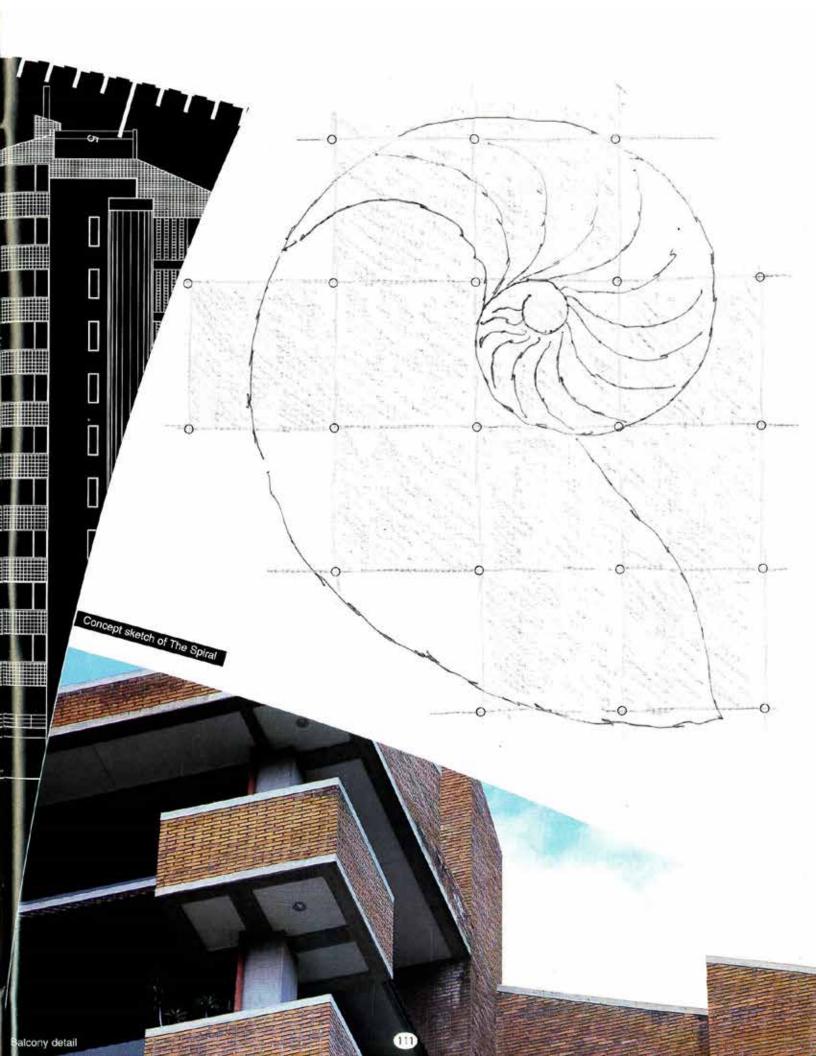


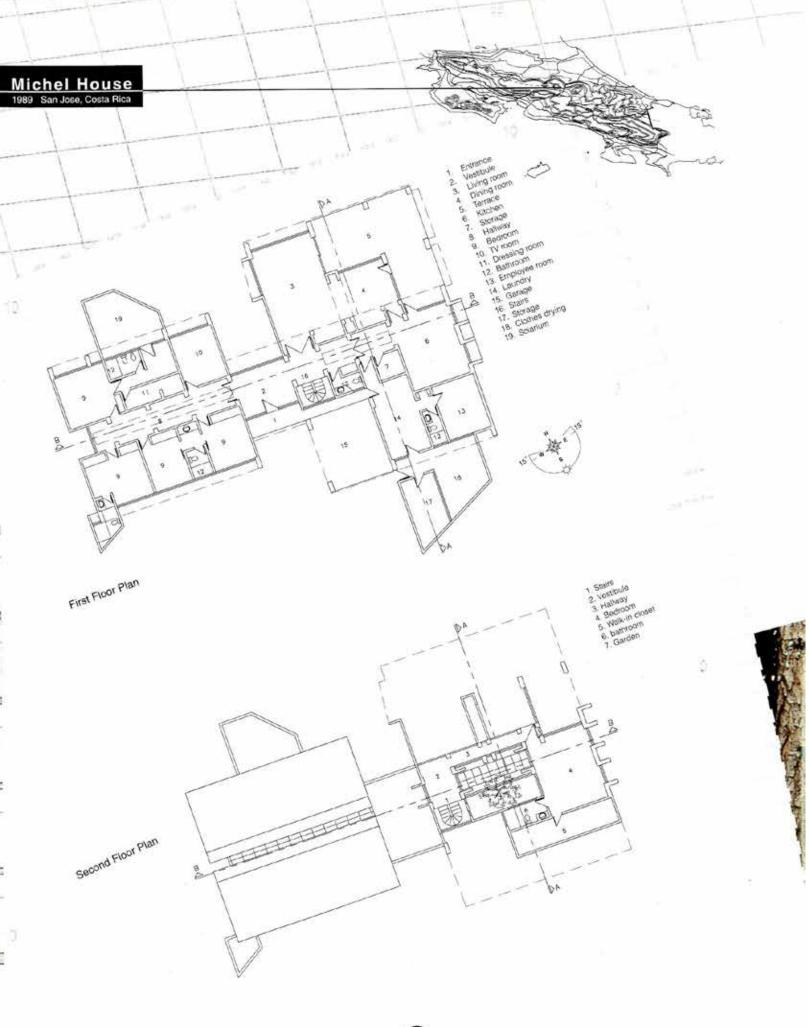


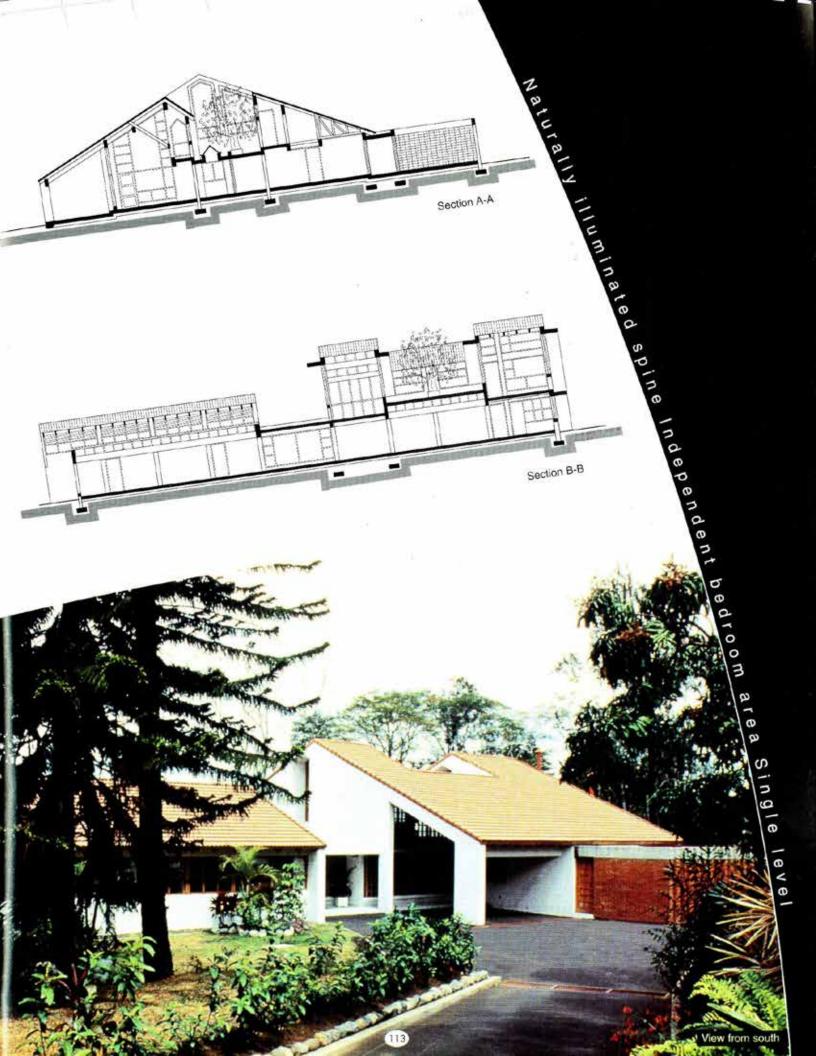




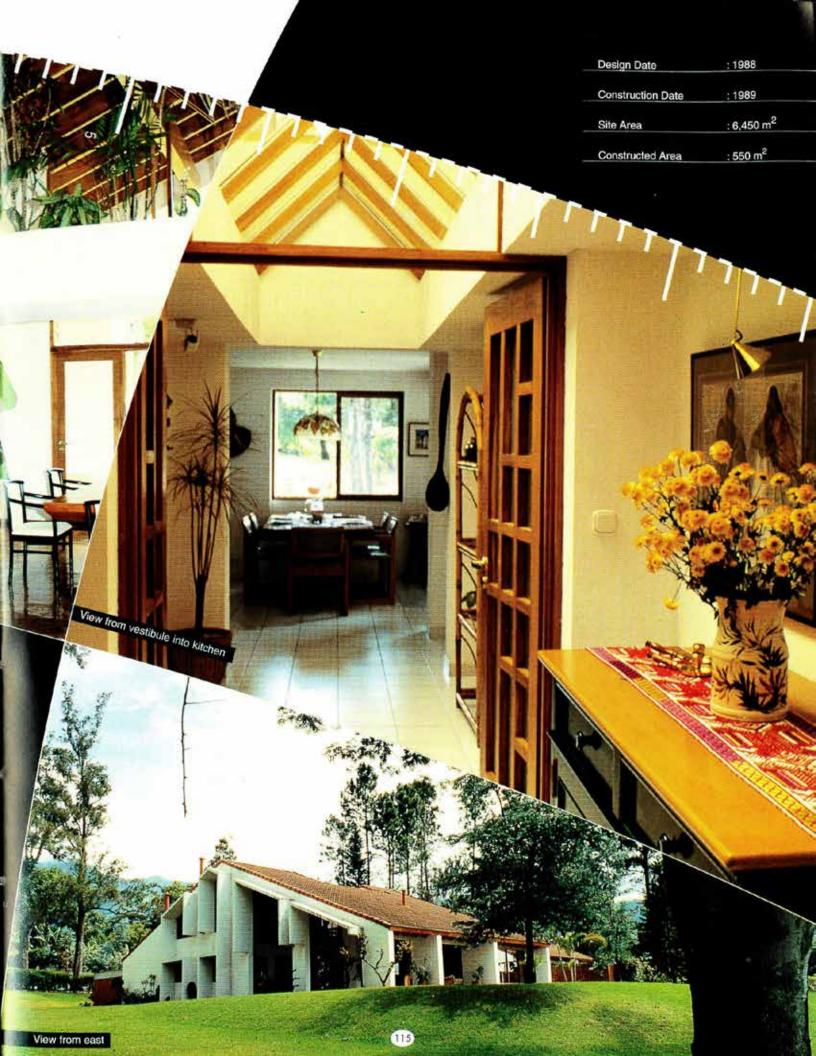


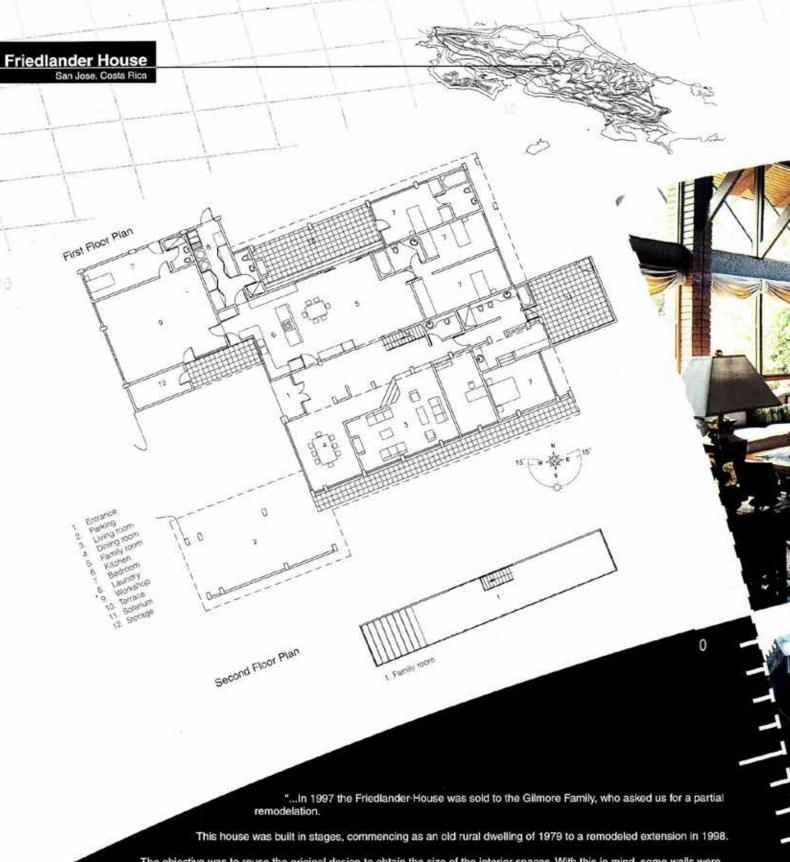








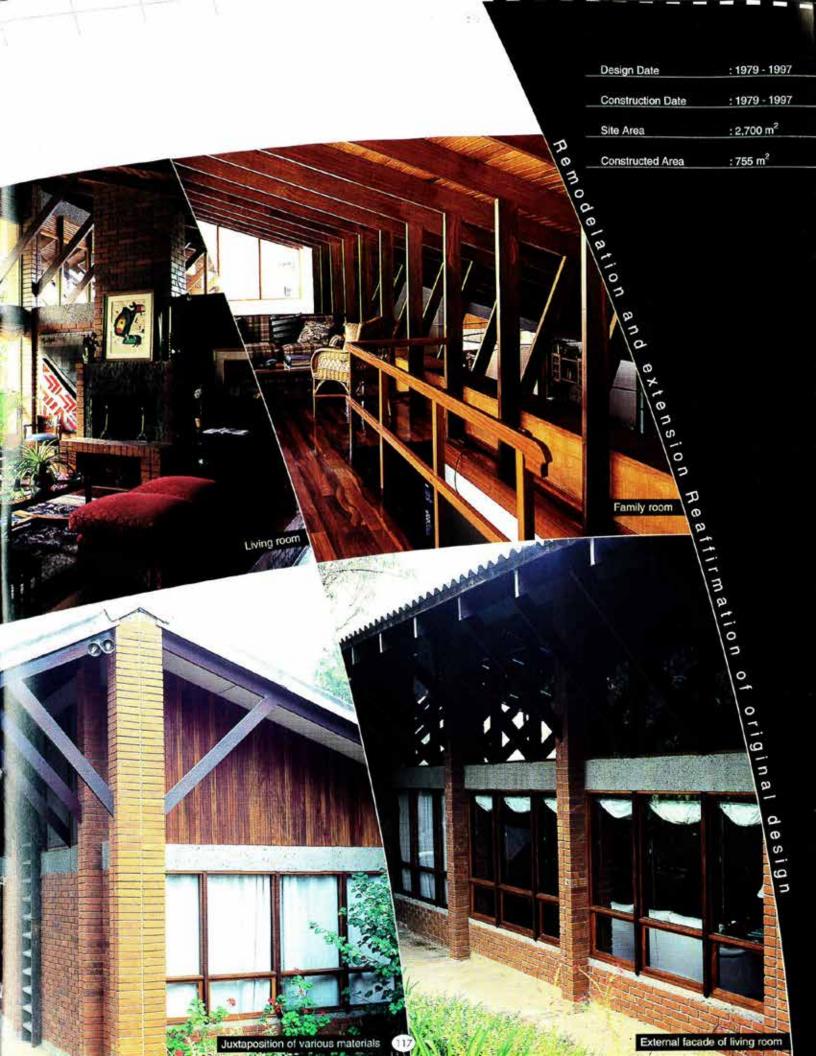


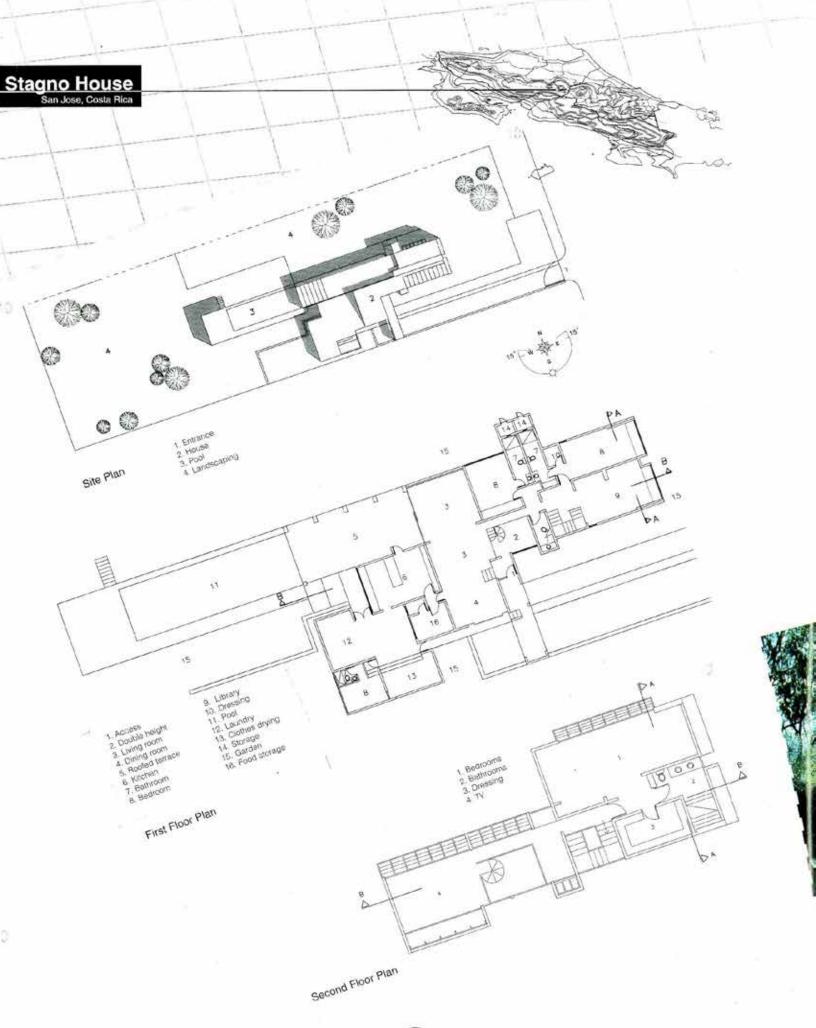


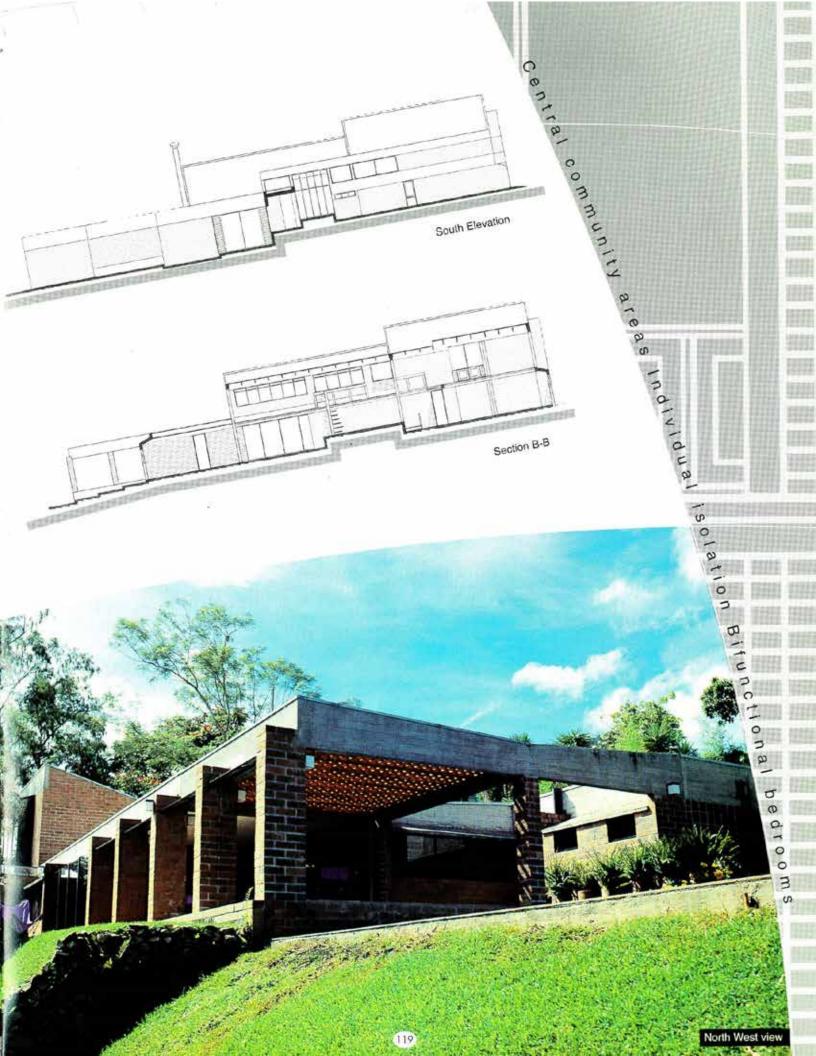
The objective was to reuse the original design to obtain the size of the interior spaces. With this in mind, some walls were demolished and the kitchen and the living room were redesigned.

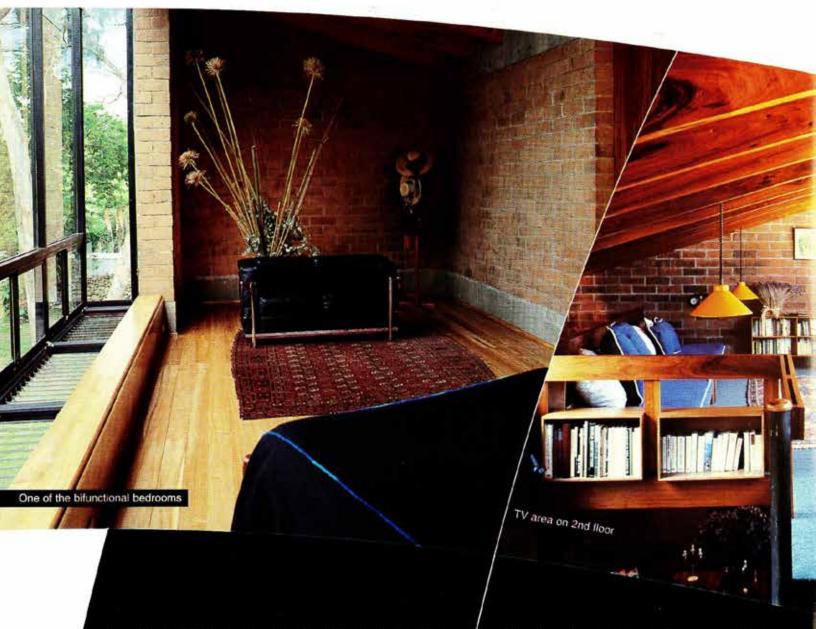
This intervention was an opportunity to reaffirm the original design of 1979 and to complete some architectonic aspects that have favored the house and ameliorated its use.

In this second stage there is a continuity of materials as well as an architectonic one of the first stage. The tile floor, the roofing and beams of almond wood, the walls and columns in structural bricks, give this house an atmosphere of tranquility. The faint and cool interior, enhanced with the illumination of natural light is inviting and peaceful..."









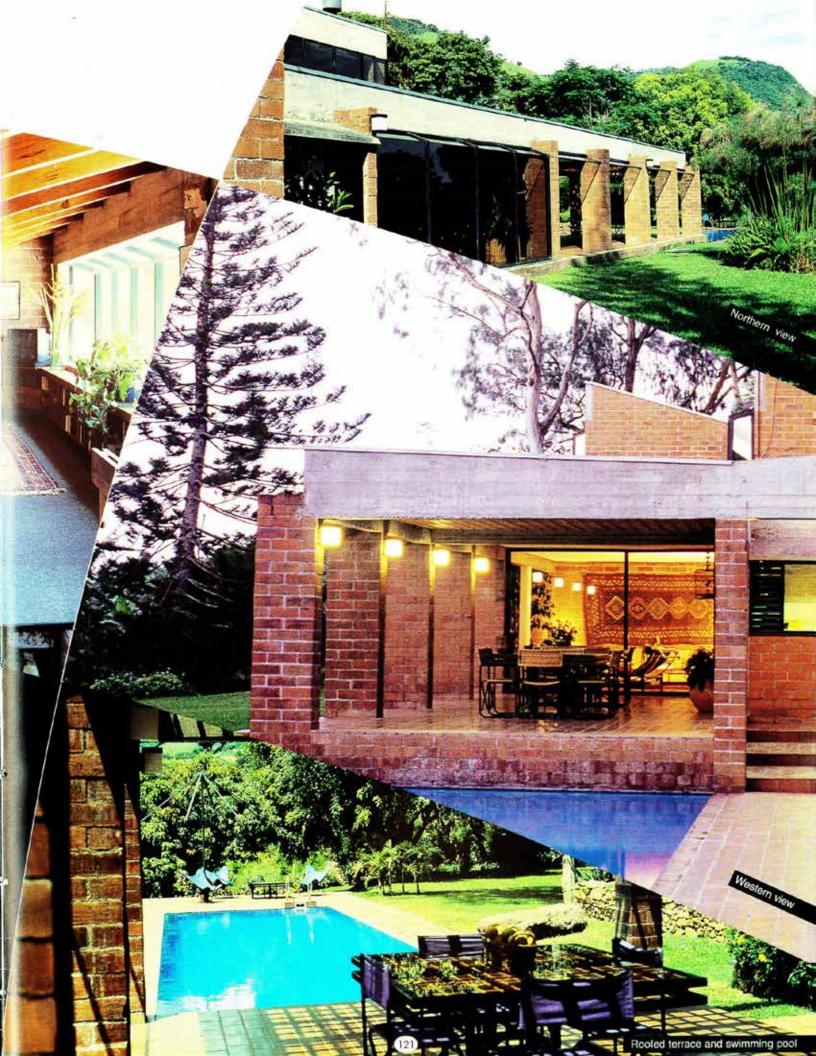
"...A distanced property with rural characteristics proved essential for the isolation of a family on a daily basis. San Jose is one of the few capital cities in Latin America where residing in a rural environment of wild yet hospitable nature demands a short 15-minute ride to the downtown area. The creek at the end of the property, dry throughout the summer yet torrentuous during winter, can be heard from the house along with the hammering of the woodpeckers that nest in the old trees and the nocturnal hooting of the owls. The property is surrounded by coffee and banana plantations and located on the slopes of the mountains that flank San Jose to the south, thus allowing an expansive view of the Central Valley.

The design appears to be an articulate unitary conception within which each inhabitant could with ease affirm and develop their personality. These units permit individual independence and isolation, yet opening into the surrounding nature. The bedrooms are comfortably bifunctional, designed as sleeping quarters and work areas. The beds are frequently repositioned according to will and necessity. The bedrooms share a central community area that displays different heights, materials, views, and functions. The community area unites the family as the presence of any family member in this area is perceptible either visually or audibly by the other members and is functionally versatile. This area also enjoys a commanding view of the mountains that rise beyond the property and of the valley that harbors the city of San Jose.

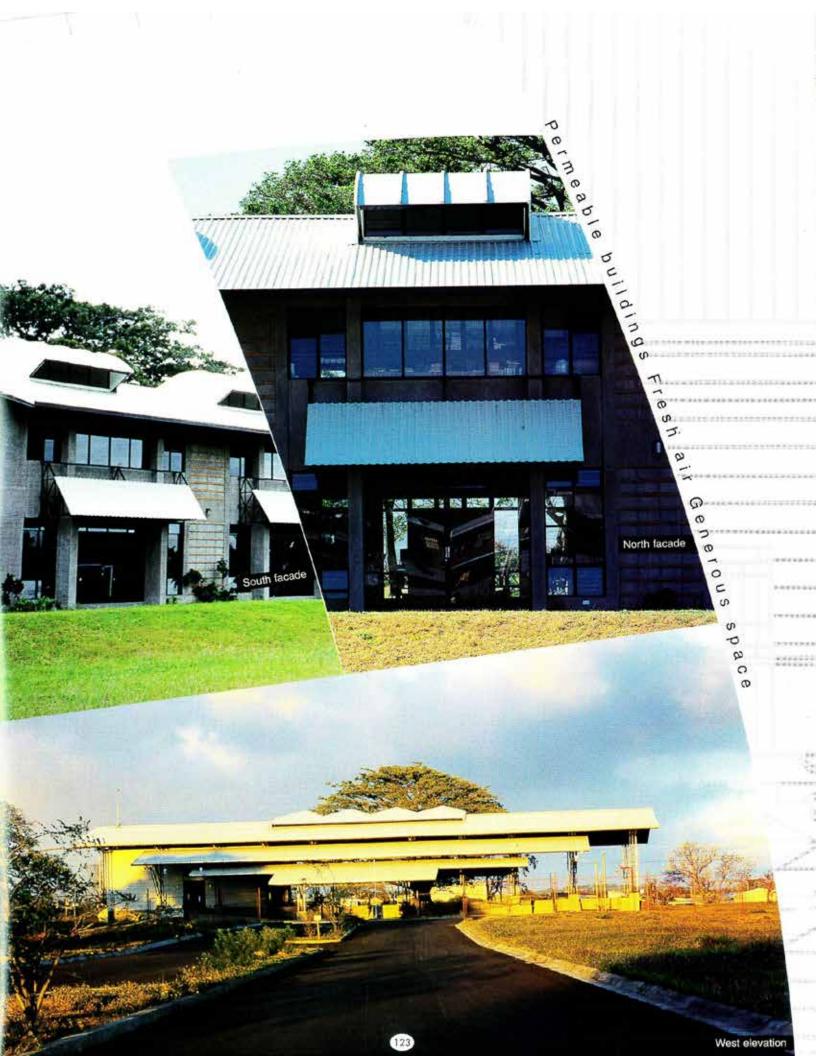
In the design I employed a schematic order based on two squares that encompass the areas for individual isolation - the bedrooms, the kitchen, and the bathrooms -, which communicate through the central community areas by means of halls liberally delineated by the arrangement of furniture.

Intending not to alter or affect the perception and the function of the architectural design of the project, I utilized simple materials exposing their bare yet harmonious colors and surfaces, attaining a pleasurable space treated without any decorations that becomes the central protagonist of the aesthetic experience of architecture..."

Design Date	: 1976 - 1990
Construction Date	: 1976 - 1990
Site Area	: 3,000 m ²
Constructed Area	: 580 m ²



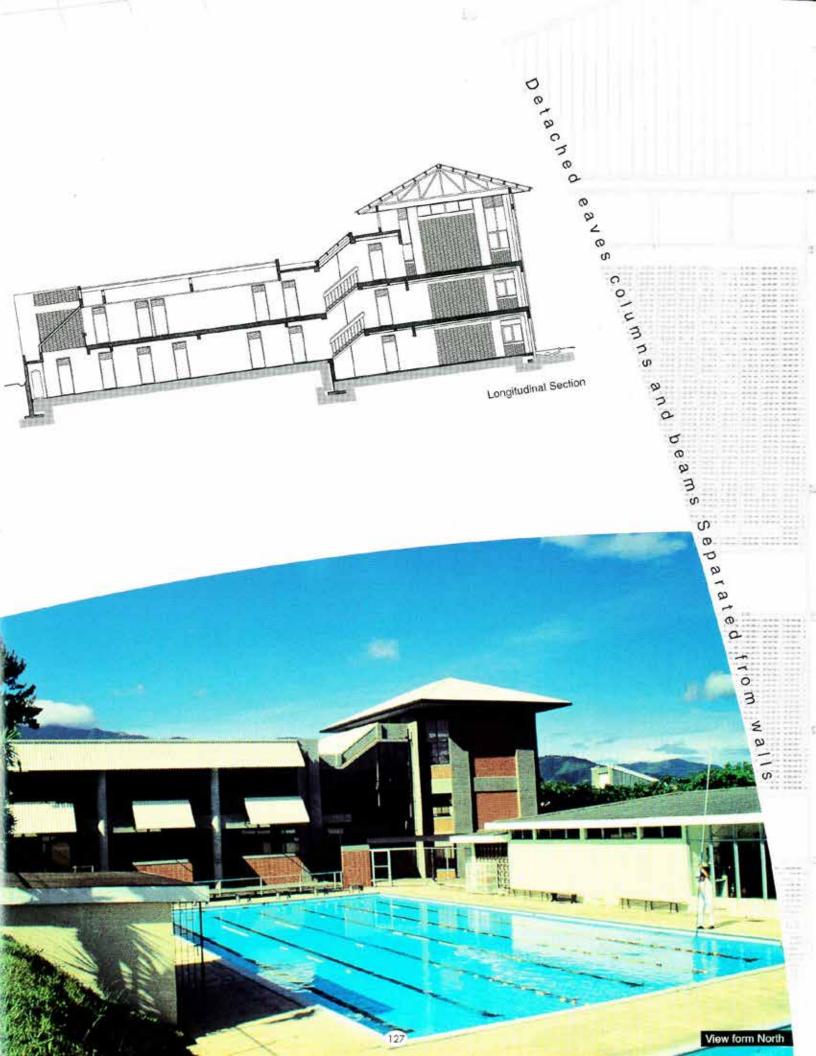


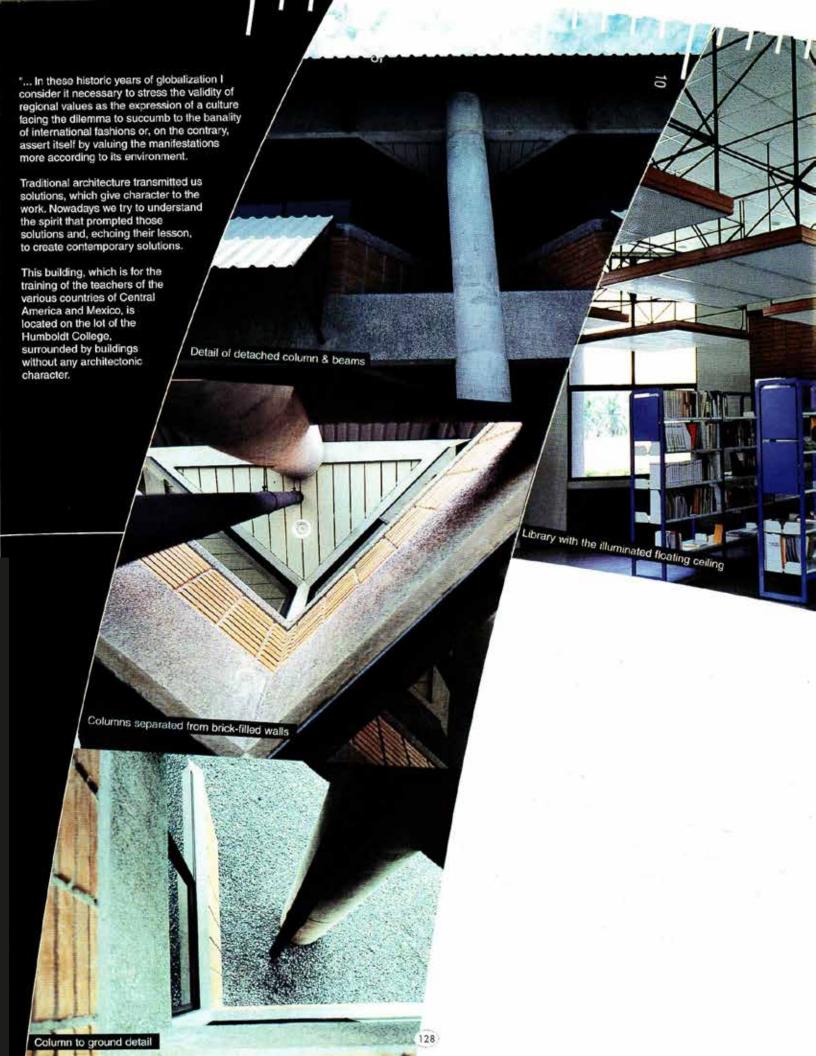






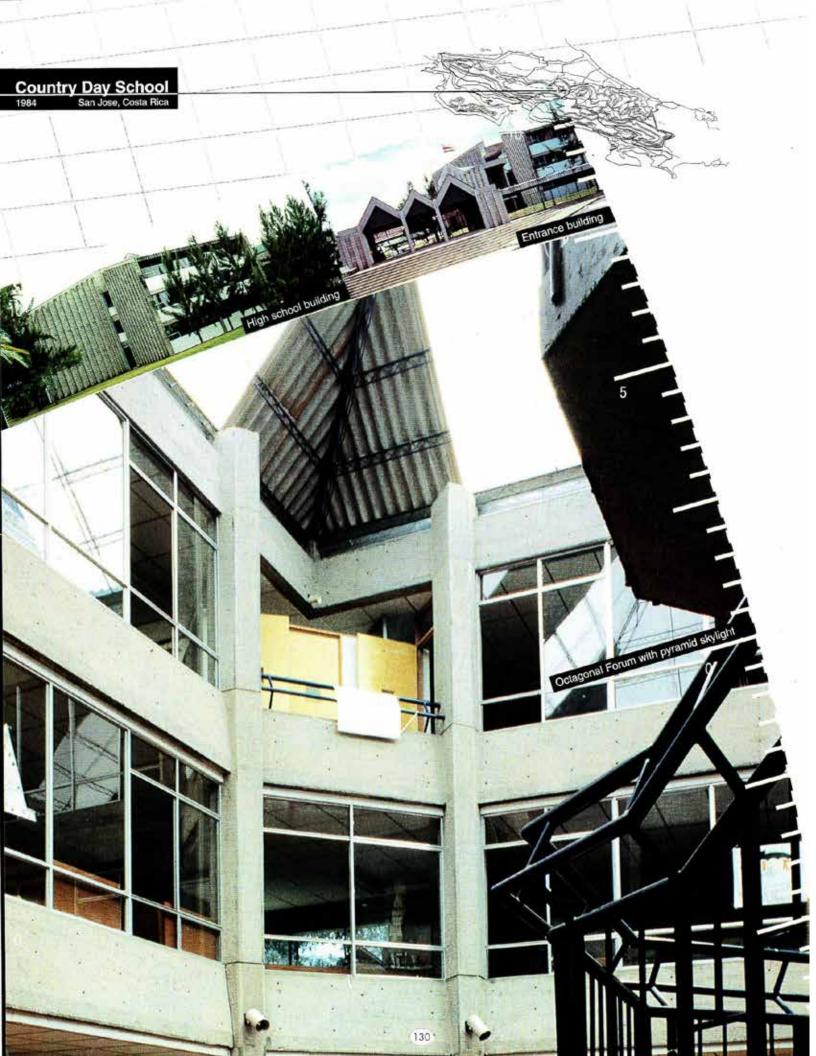


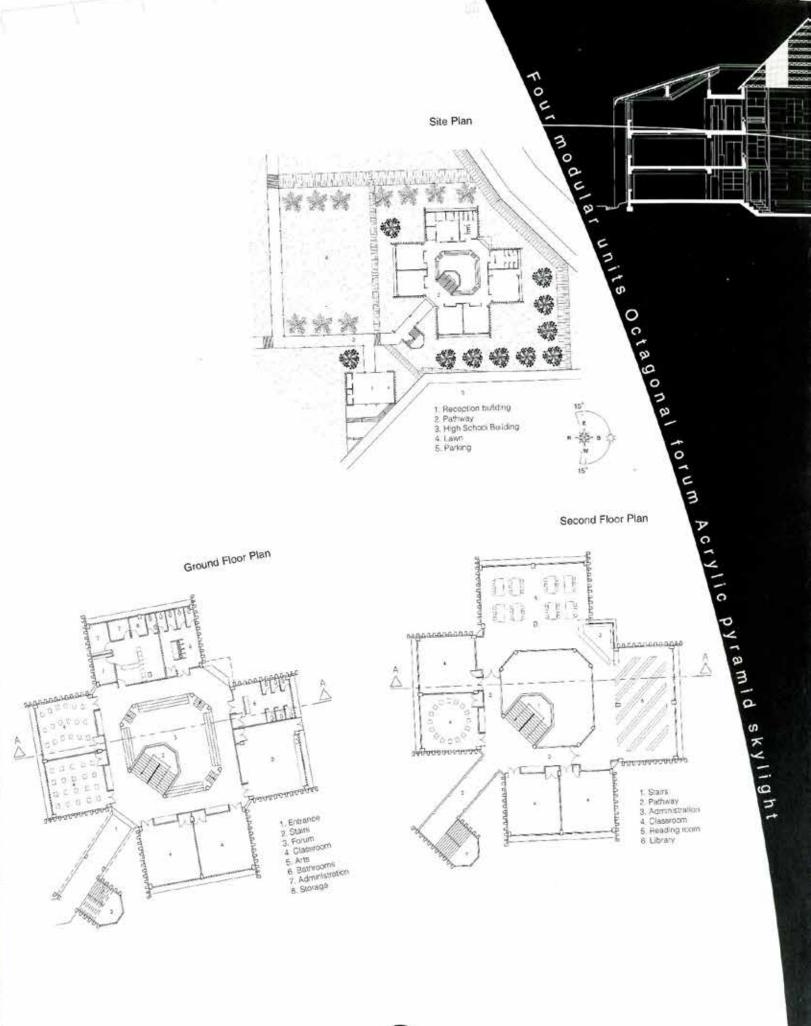


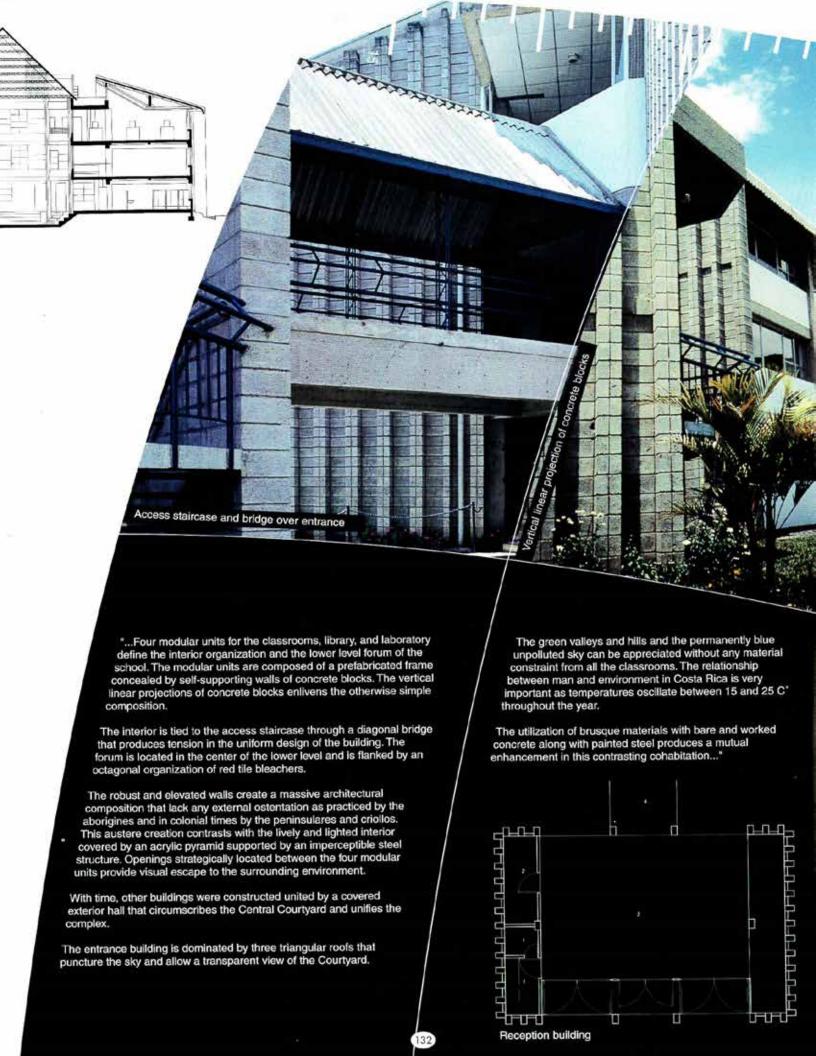




The library on the third floor, has an indirect illumination, coming from the horizontal light band, which causes the ceiling to float...*

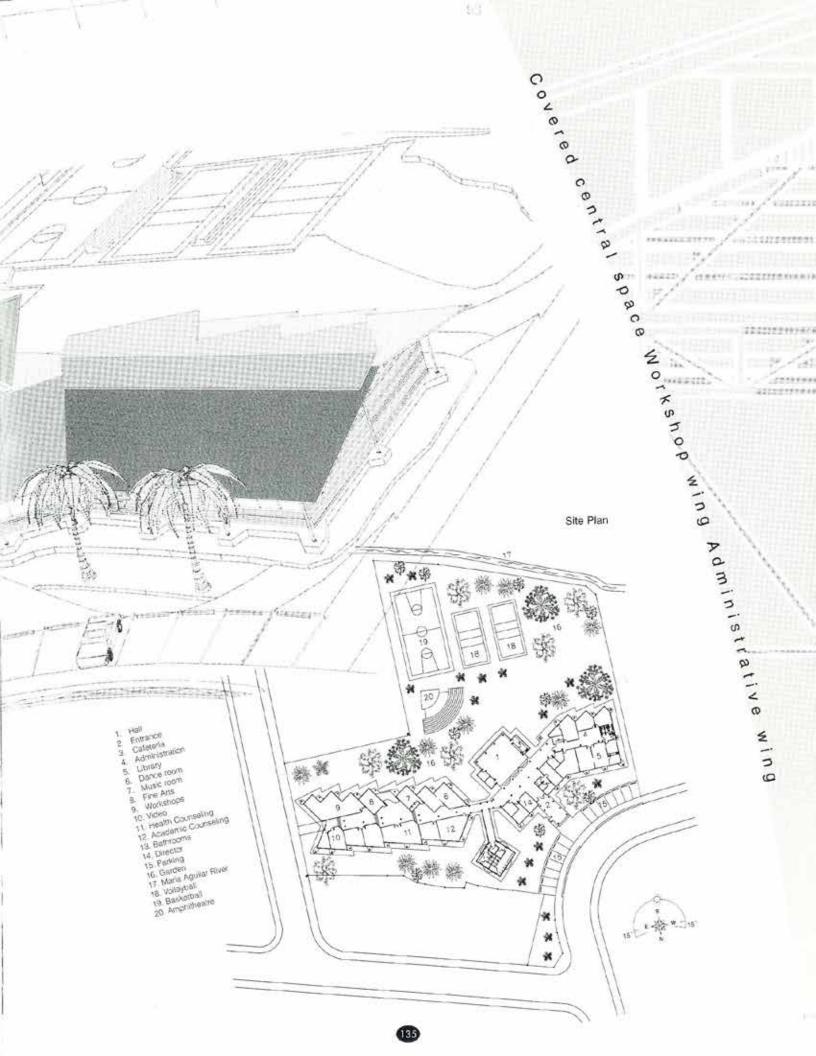


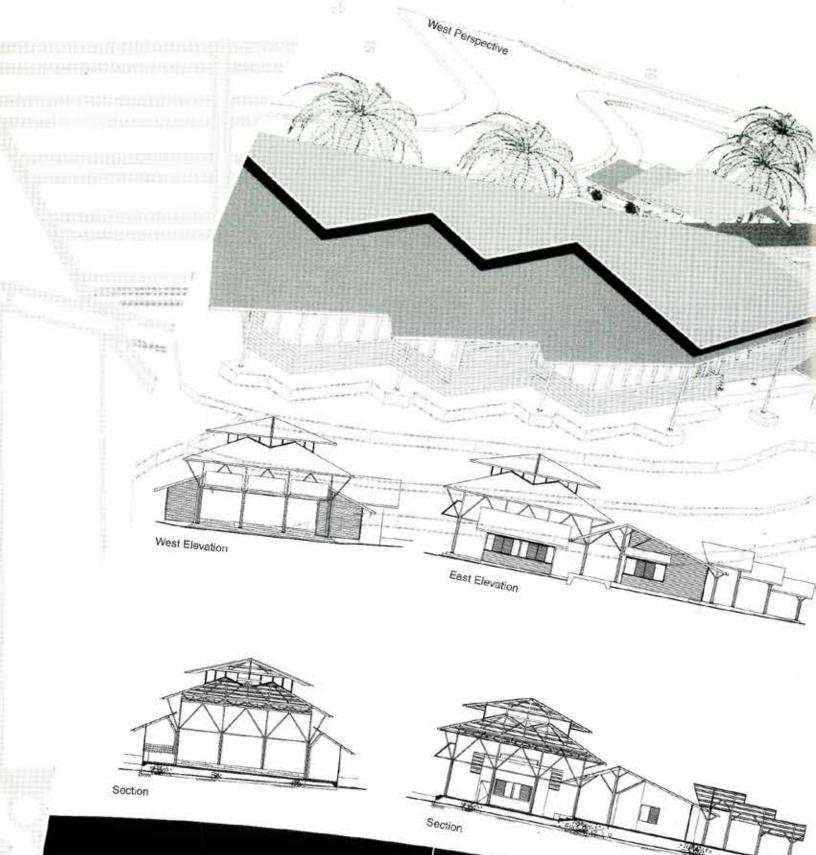












"...The PANIAMOR Foundation has decided to construct a Center for Youth Alternatives to offer adolescents a place for activities complementary to home and school.

This center is not a school, but a place in which adolescents can go in search of psychological help, orientation, and healthy group distraction.

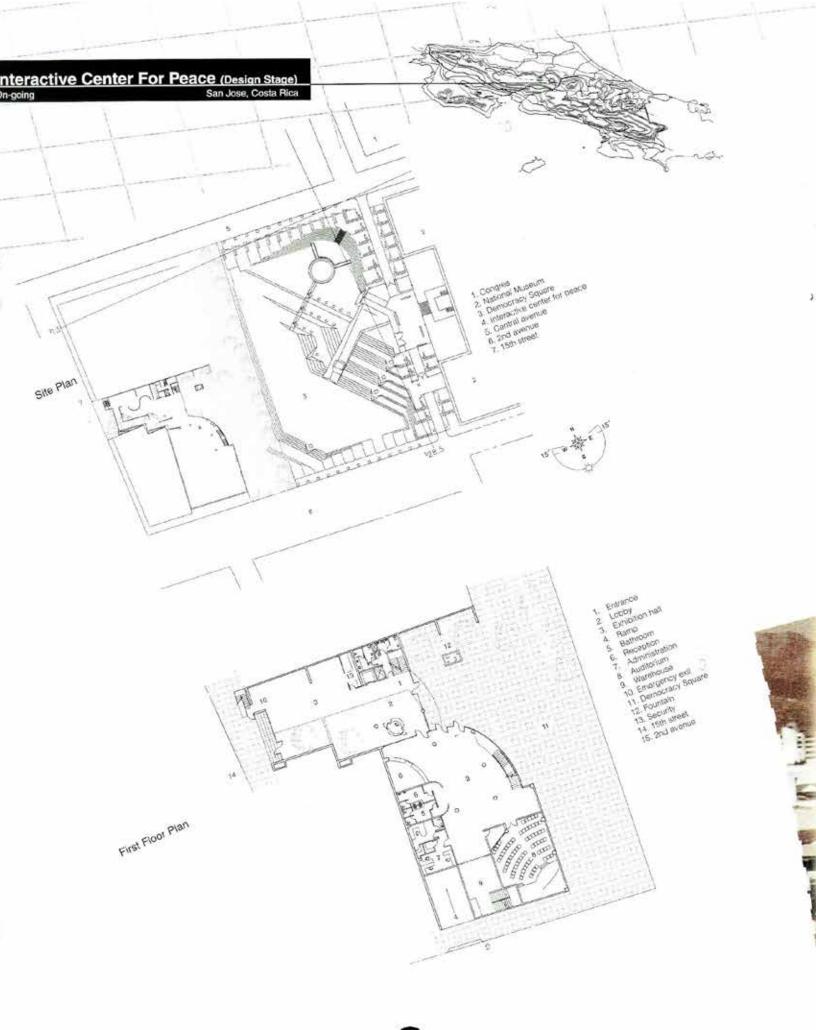
The center was designed in a lot of 8.300 m2 located in a poor neighborhood with the possibility of having vast green zones.

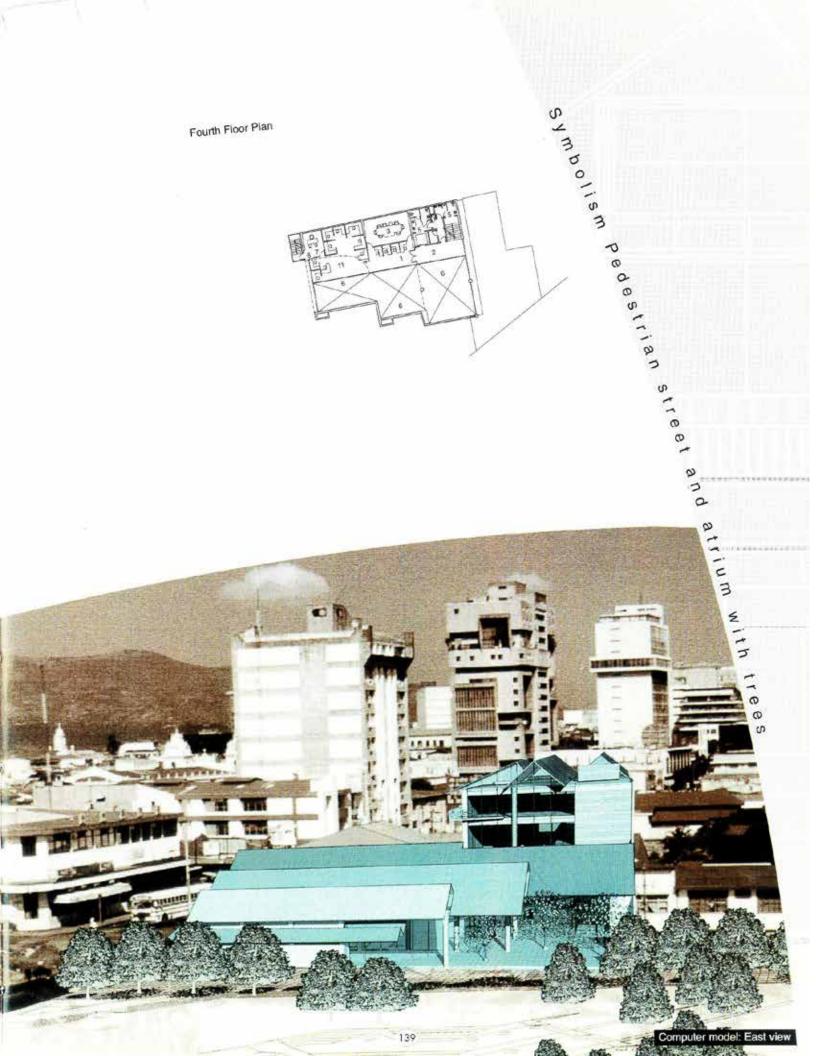
Due to the characteristics of this center, I designed a building with much liberty and formal attraction for a young and relaxed user.

An architecture of easy identification, happy expression and full of light was searched for.

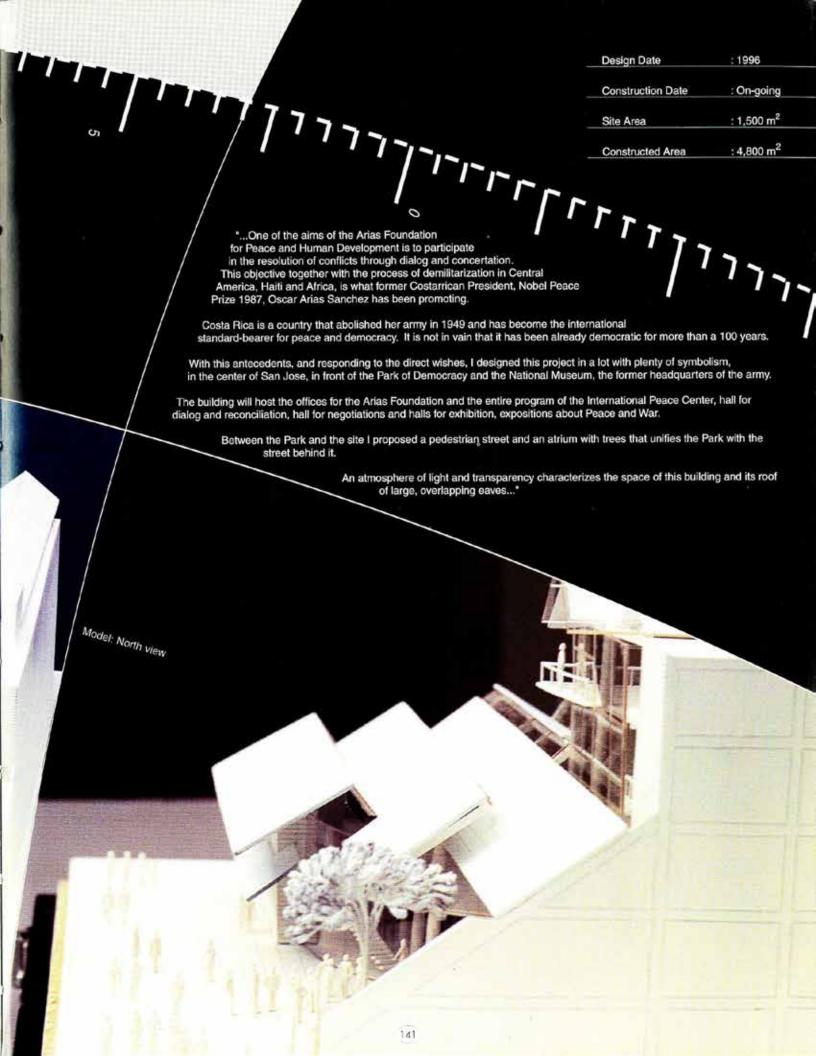
A covered central space which functions as reception and meeting place distributes the other functions into a wing of workshops and activities and another administrative one.

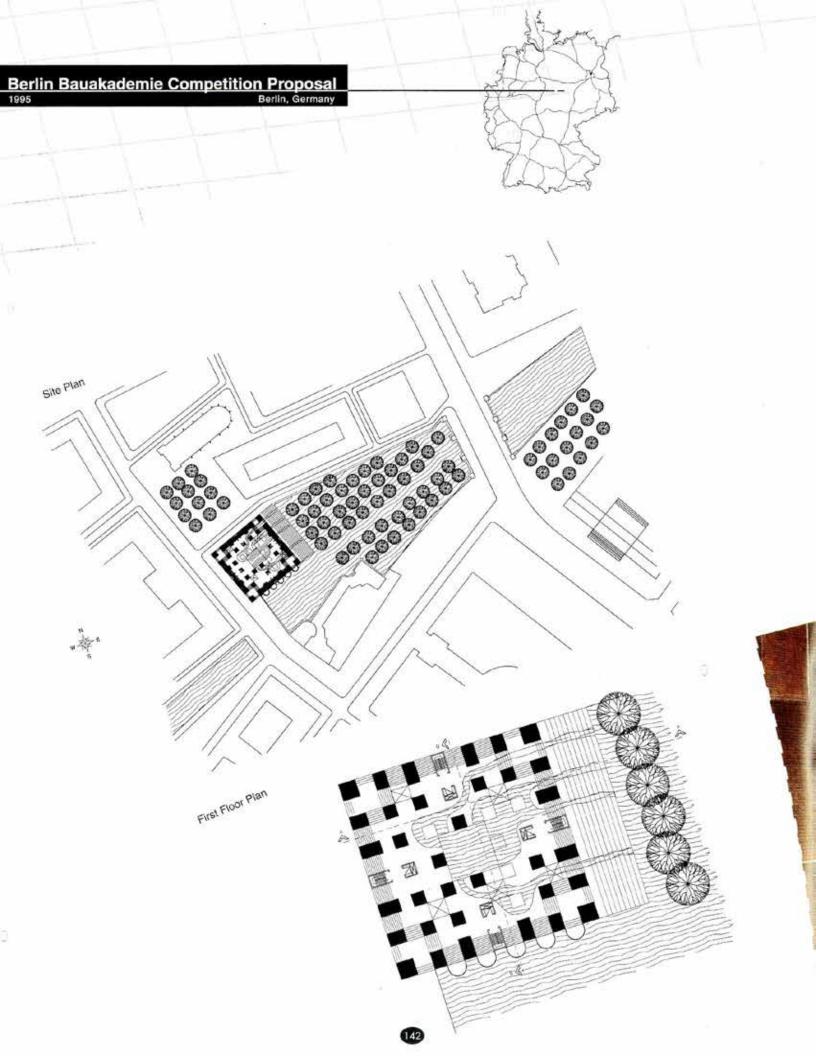
Design Date : 1997 Construction Date : On-going : 8,300 m² Site Area : 2,000 m² Constructed Area South Elevation

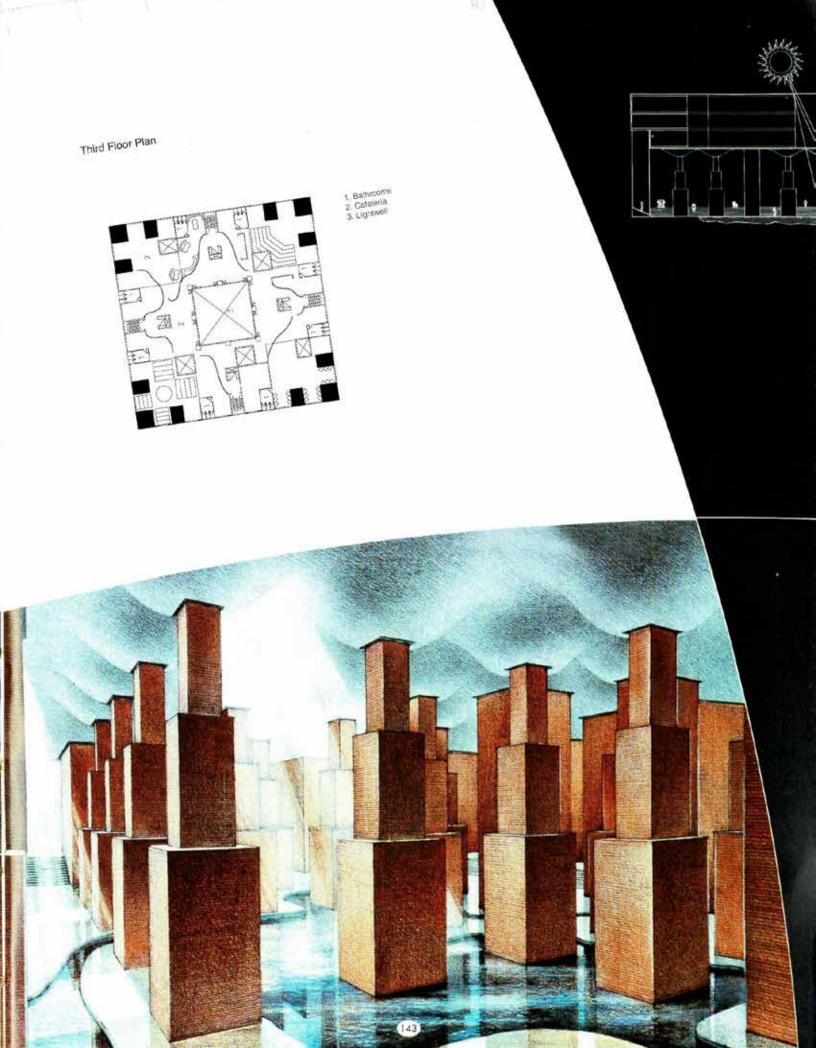


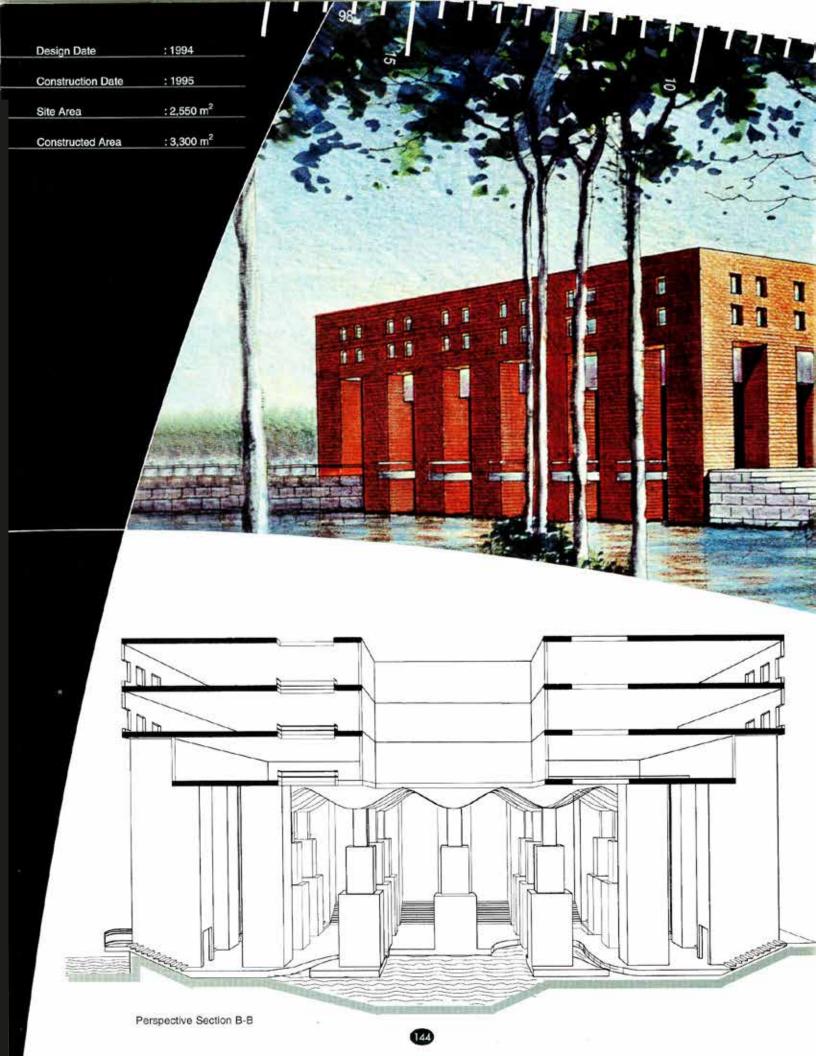




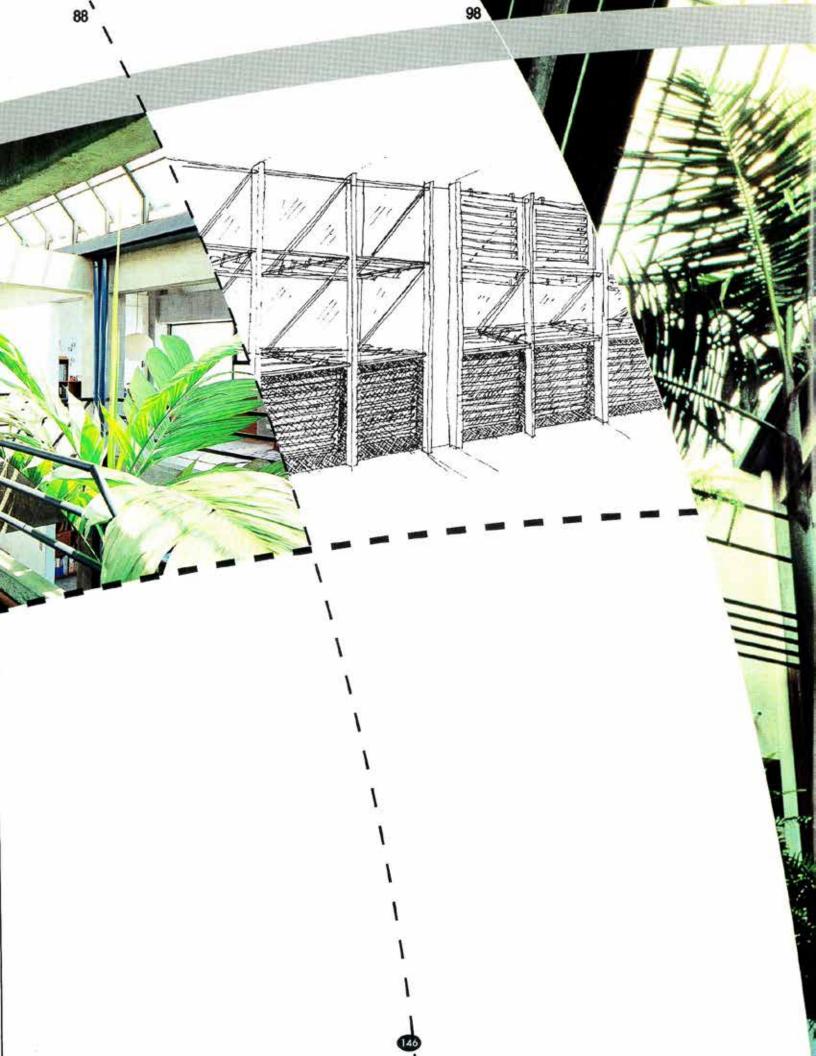


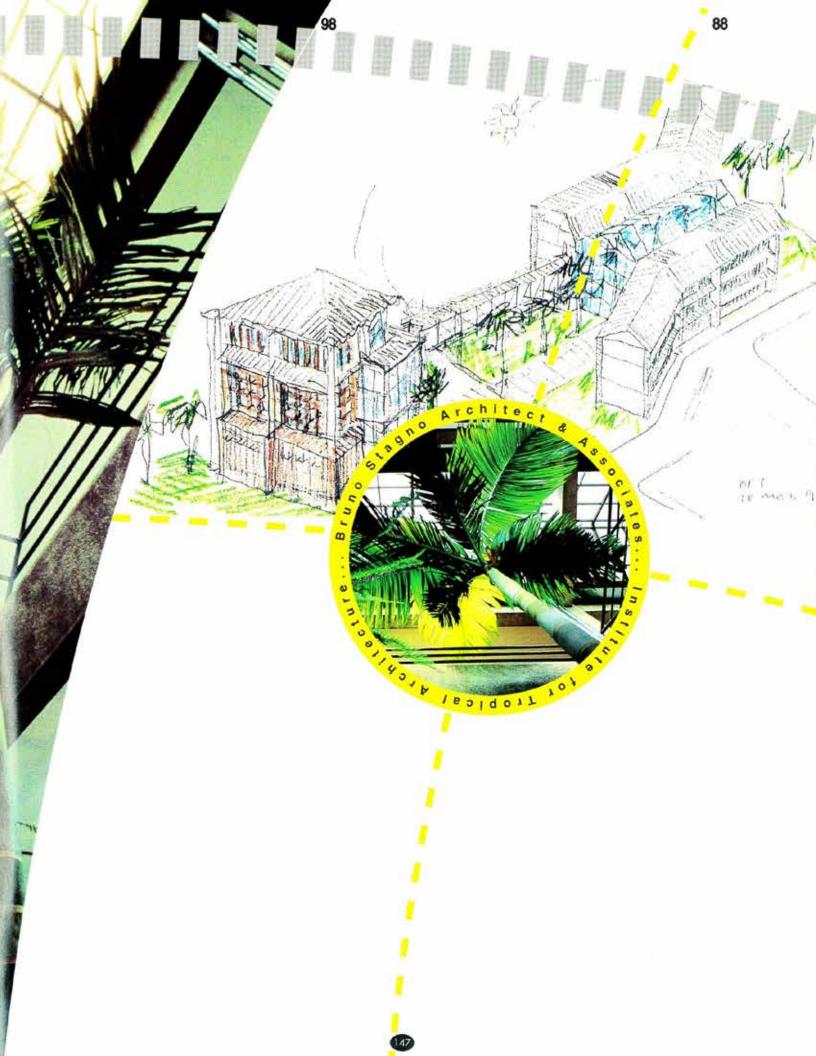






"...This proposal of an idea has been submitted to the Senate in Germany in order to avoid the reconstruction of the former building of the Bauakademie by F. Schinkel of 1836. Our project was selected by the jury together with another 12, due to the strong cityscape, that impressed the jury chaired by the architect Gunther Benish. It caused a highly lyrical tone in the commentary for *Aquatic Garden, Bruno Stagno, from San Jose, the distant capital of Costa Rica, inspired by the competition of the Bauakademie designed a surprising architecture. Stagno widens the canal of the Spree River, covering with water the triangular square of Schinkel and thus transforming it into an aquatic garden. In it he creates in a vigorous architectonic order a garden planted with trees protected from the water with flowerpot stands of stone. A building of brick that retakes the measures of the original building of Schinkel, although compositively different, adapts itself to a corner of this pond. Coming down towards the water lead ten large stairs, forming a wide flight of stairs. A more raised stair goes to the lower floor level of the building: a courtyard, a loggia composed of pillars that escalate in three levels, which becomes an urban space. Above, at the top of the roof "clouds or waves", one finds in three levels the academy..." By introducing the spaciousness of a mangrove swamp in the heart of Berlin we are bringing a new dimension of nature and the perception of vegetation from Central America to Europe. This project was like a change of direction of the vector of influence. In this respect doctor Susanne Dussel, wrote: "I think that this will have to be thought over, being a reflection from Costa Rica it becomes a genuine feast for the eyes, this means that the structures of the place and the time are nowadays more complex"..."





Acknowledgements

The Office: \ Principal: \ Bruno Stagno Arch. Pietro Stagno MA-Arch. Assistants: Carlos Araya Javier Gomez Jorge Jimenez Gustavo Cortes Alain Dubost Arch. DPLG Zullay Castillo Secretary: Mario Villalobos Credits: General Guidance and Review: \ Jimena Ugarte Translation: \ Bruno Stagno Ugarte Pietro Stagno Ugarte Photo: Bruno Stagno Netro Stagno Ugarte John Skiffington (Ford Showroom-Bank of San Jose Branch) (night photos) Drawings: \ Pietro Stagno MA-Arch. Carlos Araya Javier Gomez Jorge Jimenez Alain Dubost Arch. DPLG Computer artworks: \ Alain Dubost Arch. DPLG Sketches: | Bruno Stagno Arch. Models: \ Alain Dubost - Alberto Guillen. Berlin Mangrove Perspective: | Bruno Stagno Arch. Nicolas Belcic Arch.

Stephanie Lee Shu Mei Ong Eng Huat

Book cover & design:

Bruno Stagno An Architect in the Tropics

Born Santiago, Chile.

Residing in Costa Rica since

1973

Education:

Catholic University, Chile	1962/67
Ecole des Beaux Arts, Paris, France	1969/72

Awards:

Mention for Stagno House in Costa Rica	1977	
Prize III Biannual Conference on Architecture Dominican Republic	1990	
Prize I Biannual Conference of the Caribbean, Dominican Republic	1990	
Mention for Michel House in Costa Rica	1992	
Honorary member of the Mexican Institute of Architects (Jalisco Chapter), Jalisco, Mexico	1992	
Mention for Dinca Building in Costa Rica	1994	
Founding Director, Institute for Tropical Architecture, San Jose, Costa Rica	1994	
Shortlisted project in competition for the reconstruction of K. F. Schinkel Bauakademie, Berlin, Germany	1995	
Prize, Best National Project in Architecture, III Biannual on Architecture, Costa Rica	1996	
Nominated for the Richard Neutra Award, U.S.	Α.	

Honorary member of the Panamenean

Institute of Architecture and Urbanism, Panama City

Include in Enciclopedia de Arquitectura Latinoamericana del siglo XX, Milan, Italy 1996

Official Preceptor, Rice University,

Houston, Texas, USA 1997-1999

Prize, Prince Claus Fund for Culture and Development, the Netherlands

1997 Chevalier de L'Ordre des Arts et des

Lettres Honour from the French Government, Paris, France

1998

1996

Grant from the John Simon Guggenheim Memorial Foundation, New York, USA

1998

