OLDIE THEATRE SQUARE

PRIYANOOSH SOUKSHOOAY

OR OF RCHITECTURE

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Oldie Theatre Square

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ID: 501-4166

A Thesis Submitted in Partial

Fulfillment of the Requirements

For the Degree of

Bachelor Degree of Architecture

Department of Interior Architecture, School of Architecture and Design

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Abstract

Oldie Theatre Square

Oldies square will be beneficial to educate and understand the history of culture and social movements, and way of thinking during that period.

This project will be beneficial to theatre business and their supporting areas on the old building Scala Theatre, which is old and not a very interesting place for people walking past there, because its old character and old name of building when put the trend to it, instead of oldies character to support and make this oldie concept to be more obvious to attract more people to use this place and make profit to this old theatre.

The project will be putting new interesting activities in the oldies space to remind of "oldies" nostalgia which will be valuable to study how they were through their suffering and oppressed life. It is a kind of nostalgia that may be an inspiration for everyone who is interested in creation: e.g. creation in music composition, screenwriting, or fashion design.

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Table of Contents

Chapter 1: Thesis Introduction

1.1 Background of Interest

1.2 Study Defined

1.3 Thesis Statement

1.4 Research Scope

1.5 Design Scope

1.6 Definition of Terms

Page

1

1

1

3

3

4

4

5

6

Chapter 2: Project Type Research	14
2.1 Literature Review	14
2.2 Case Study	21
Chapter 3: Data Collection	48
3.1 Human Factor	48
3.2 Function and Facilities Study	50
3.3 User Behavior	51
3.4 Aesthetic and Form	57
Table of Contents	Page
3.5 Site Study	58
3.6 Project Specifics SINCE 1969	64
Chapter 4: Data Synthesis and Area Requirements	84
4.1 Space Area Requirements	84
4.2 Area Requirements	85
4.3 Bubble Diagram	102

4.4 Functional Diagram	103
4.5 Concept	104
Chapter 5: Design Studio	105
5.1 Conceptual Design	105
5.2 Design Approach	108
5.3 Design Development	111
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Junior friend also, who help me thesis work, enjoy, and encourage





Thesis title

Oldies Square

Project type

Design Proposal for Interior Architecture design:

Oldies Square

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Chapter1: Introduction

1.1 Project Background and Context

Scala is located in Siam. The owner is Pisit Tansajja, who also owns the very successful Salachalermthai Theatre. Its location is near Chulalongkorn University and Siam Square, where have been crowded with teenagers since about B.C 2512. It has a long history and its location near very famous place like Siam Square, where has been a center of fashion and teenagers, means the project will be supported by business purpose. Moreover, it is near the Bangkok Art Culture Centre and the National Stadium, where many teenager activities have surrounded this Theatre.

Oldie is a commonly used term to describe on music from the 1950s - 1980s, Rock 'n' roll music was very popular during this period: e.g. Elvis Presley and The Beatles. It influenced teenagers at that time, which was teenage period of our parents, who knew well the American Baby Boomers, who influenced the social culture movement. It is an example of an expression of themselves to appear in social movements to oppose problems such as the oppression of black people and war, the social movement and cultural movement, was expressed in appearances by

teenagers in many media such as music, film, and fashion. "Oldies is a term commonly used to describe a radio format that concentrates on music from a period of about 15 to 55 years before the present day. In the 1980s and 1990s, "oldies" meant the 15 years from the birth of rock 'n' roll to the beginning of the singer-songwriter era of the early 1970s, or about 1955 to 1972, although this varied and some stations chose 1950-1969. In the early 2000s, 1970s music was increasingly included, and early 1980s music is beginning to also be called "oldies", though the term "classic hits" is used to distinguish the "new" oldies (the Generation X oldies) from the "old" oldies (the Baby Boomer oldies)."

Nowadays, a new trend is going to be nostalgia that is coming back again." Everytime oldies are new again. WCBS-FM, the nation's No. 1 oldies station for more than three decades until a 2005 switch, is ready to shift from its current "Jack" format and re-embrace the classic sounds of its past, according to online reports.

"If this happens, it will be a fantastic move," said "Cousin Brucie" Morrow, one of the veteran DJs jettisoned when the station swapped formats. "There isn't a day that goes by that people don't come up to me and say, We miss the station so much."

CBS Radio, owner of the station, declined to comment on the much rumored change."²

So, oldies can be like vintage style or worn by people in the present day. Scala theatre is one of the most famous retrospective sites. It should be valuable to people from the American Boomer period until now. The Scala Theatre site should be valuable to people who are interested, if the Scala Theatre is renovated to be of more interest as the project of Oldies Square.

http://en.wikipedia.org/wiki/Oldies

http://new.music.yahoo.com/beastie-boys/news/are-oldies-the-new-jack-on-nyc-radio--45019874

1.2 Study Defined

1.2.1 Reason of Study

- 1.2.1.1 Inspired by oldies style of music, film, and pop art, this theatre project will be related with old film and music and will arrange and run business a selection of old movies and art movies to be shown in the theatre. The theatre space can also be space for Rock 'n' roll and blue concerts to support teenager culture, which will need the opportunity to properly express and use free time, which is better than drugs. Teenage behavior must be concerned with drug problems that might be decreased, and will be beneficial to solve some drug problems of teenagers in Thailand also. The management of this theatre will be money cycle of benefit from their teenager concert to publicity and return to be their opportunity to support, which bring their potential up to long term in developing to our country.
- 1.2.1.2 Oldies, the period of '60s, '70s, and '80s, has an intellectual value and most inspiration when we create art and design or compose a kind of music nowadays. When we try to create, design or compose any art, such as fine art, design, or music, we must remind ourselves of that period of the 20th century to help design and inspiration.
- 1.2.1.3 To remind others of the feeling of the old times. I would like to design an interior space that expresses values of "oldies" to give the community most creative inspiration in a newly designed interior space.

1.2.2 Objective of study

- To be the "oldie" information library
- To be the "oldie" source place
- To be a social center for "oldie" community.
- To understand characteristics of '60s and '70s concept
- To understand background of hippies and "oldies" concept
- To create nostalgic feelings when people come into the space
- To inspire any people who are interested to work with "oldies" concept
- To be the "oldies" theatre business place
- To be the place to support teenagers and decrease their drug problems

1.3 Thesis statement

Oldies square will be beneficial to educate and understand the history of culture and social movements, and way of thinking during that period. This project will be beneficial to theatre business and their supporting areas on the old building Scala Theatre, which is old and not a very interesting place for people walking past there, because its old character and old name of building when put the trend to it, instead of oldies character to support and make this oldie concept to be more obvious to attract more people to use this place and make profit to this old theatre. The project will be putting new interesting activities in the oldies space to remind of "oldies" nostalgia which will be valuable to study how they were through their suffering and oppressed life. It is a kind of nostalgia that may be an inspiration for everyone who is interested in creation: e.g. creation in music composition, screenwriting, or fashion design.

1.4 Scope of Research

- To study the relationship of "oldies" behavior with the space.
- To study structure, the technical system and engineering system in the theater project.
- To study case study of theater, music hall, hall of fame, library, and souvenir shop.
- To study the function and facilities of the theatre, supporting office, event hall, and library
- To study and analyze about the target group that will suit the theater project.
- To study the surroundings and environment of the retail area.

1.5 Design scope

Focusing on the principle function of the theater includes the following:

1.5.1 Main facilities

1.5.1.1 Public Area

Main hall

Event hall

Reception

Lobby

Lobby lounge

1.5.1.2 Special Recreation

Restaurant

Café

Theater

Hall of fame

Library

Souvenir shop.

1.6 Definition of terms

Oldie

"Oldies" is a term commonly used to describe a radio format that concentrates on music from a period of about 15 to 55 years before the present day.

In the 1980s and 1990s, "oldies" meant the 15 years from the birth of rock n roll to the beginning of the singer-song writer era of the early 1970s, or about 1955 to 1972, although this varied and some stations chose 1950-1969. In the early 2000s, 1970s music was increasingly included, and early 1980s music is beginning to also be called "oldies", though the term "classic hits" is used to distinguish the "new" oldies (the Generation X oldies) from the "old" oldies (the Baby Boomer oldies).

• 20th Century

The **20th century** of the <u>Anno Domini</u> began on <u>January 1</u>, <u>1901</u> and ended on <u>December 31</u>, <u>2000</u>.

• Theater

Theatre is a collaborative form of <u>fine art</u> that uses live performers to present the experience of a real or imagined event before a live audience in a specific place. The performers may communicate this experience to the audience through combinations of gesture, speech, song, music or dance. Elements of design and <u>stagecraft</u> are used to enhance the physicality, presence and immediacy of the experience. The specific place of the performance is also named by the word "theatre" as derived from the <u>Ancient Greek</u>.

Retrospect

Retrospective compilations are sometimes assembled from an artist's greatest hits.

• Nostalgia

The term *nostalgia* describes a yearning for the past, often in <u>idealized</u>. The word is a learned formation of a <u>Greek</u> compound. It was described as a medical condition, a form of <u>melancholy</u>, in the <u>Early Modern period</u>, and came to be an important topic in <u>Romanticism</u>.

Nostalgia, in its most common meaning, caused the old front desk of <u>The Beverly Hills</u>

Hotel (from 1942 to 1979) to be made into a bar.

In common, less clinical usage, nostalgia sometimes includes a general interest in past eras and their personalities and events, especially the "good old days" of a few generations back recast in an idyllic light, such as the <u>Belle Époque</u>, <u>Merry England</u>, <u>Neo-Victorian</u> aesthetics, the US "<u>Antebellum</u>" <u>Old South</u>, etc. Sometimes it is brought on by a sudden image, or remembrance of something from one's childhood.

• Rock 'n' Roll

Rock and roll is a genre of popular music that originated and evolved in the <u>United States</u> during the late 1940s and early 1950s, primarily from a combination of the <u>blues</u>, <u>country music</u>, <u>jazz</u>, and <u>gospel music</u>. Though elements of rock and roll can be heard in country records of the 1930s, and in blues records from the 1920s, rock and roll did not acquire its name until the 1950s. An early form of rock and roll was <u>rockabilly</u>, which combined country and jazz with influences from traditional <u>Appalachian folk music</u> and gospel.

The <u>American Heritage Dictionary</u> and the <u>Merriam-Webster Dictionary</u> both define rock and roll as synonymous with <u>rock music</u>. <u>Encyclopaedia Britannica</u>, on the other hand, regards it as the music that originated in the mid-1950s and later evolved "into the more encompassing international style known as rock music."-For the purpose of differentiation, this article uses the latter definition, while the broader musical genre is discussed in the <u>rock music</u> article.

• Popular Culture (Pop Culture)

Popular culture (often referred to as **pop culture**) is the totality of ideas, perspectives, attitudes, images and other phenomena that are deemed preferred through an informal consensus within the mainstream of any given society.

Popular culture is heavily influenced by the <u>mass media</u> and permeates the everyday lives of many people.

The term "popular culture" was coined in the 19th century to refer to the education and general "culturedness" of the <u>lower classes</u>, as was delivered in an address at the <u>Birmingham Town Hall</u>, England. The term began to assume the meaning of a culture of the lower classes separate from (and sometimes opposed) to "true education" towards the end of the century, a usage that became established by the <u>interbellum</u> period. The current meaning of the term, culture for mass consumption, especially originating in the United States, is established by the end of <u>World War II</u>. The abbreviated form "pop culture" dates to the 1960s.

• Pop Art

Pop art is an <u>art movement</u> that emerged in the mid 1950s in <u>Britain</u> and in the late 1950s in the <u>United States</u>. Pop art challenged tradition by asserting that an artist's use of the mass-produced visual commodities of popular culture is contiguous with the perspective of <u>fine</u> art. Pop removes the material from its context and isolates the object, or combines it with other

objects, for contemplation. The concept of pop art refers not as much to the art itself as to the attitudes that led to it.

Pop art employs aspects of <u>mass culture</u>, such as <u>advertising</u>, <u>comic books</u> and mundane cultural objects. It is widely interpreted as a reaction to the then-dominant ideas of <u>abstract expressionism</u>, as well as an expansion upon them. And due to its utilization of found objects and images it is similar to <u>Dada</u>. Pop art is aimed to employ images of popular as opposed to elitist culture in art, emphasizing the banal or <u>kitschy</u> elements of any given culture, most often through the use of <u>irony</u>. It is also associated with the artists' use of mechanical means of reproduction or rendering techniques.

Baby Boomer

A baby boomer is a person who was born during the demographic Post-World War II baby boom. The term "baby boomer" is sometimes used in a cultural context. Therefore, it is impossible to achieve broad consensus of a precise definition, even within a given territory. Different groups, organizations, individuals, and scholars may have widely varying opinions on what constitutes a baby boomer, both technically and culturally. Ascribing universal attributes to a broad generation is difficult, and some observers believe that it is inherently impossible. Nonetheless, many people have attempted to determine the broad cultural similarities and historical impact of the generation, and thus the term has gained widespread popular usage.

United States birth rate (births per 1000 population). The blue segment is the postwar baby boom.

In general, baby boomers are associated with a rejection or redefinition of traditional values; however, many commentators have disputed the extent of that rejection, noting the widespread continuity of values with older and younger generations. In Europe and North America boomers are widely associated with privilege, as many grew up in a time of affluence. As a group, they were the healthiest, and wealthiest generation to that time, and amongst the first to grow up genuinely expecting the world to improve with time.

• 1960s

From left, clockwise: A soldier lies on the ground during the <u>Vietnam War</u>; The arrival of <u>The Beatles</u> in the U.S., and subsequent appearance on <u>The Ed Sullivan Show</u> in 1964, marked the start of the "<u>British Invasion</u>", contributing to the band's phenomenal success and tremendous influence on popular music in the <u>U.S</u> and around the world; the <u>Woodstock Festival</u> was held in upstate <u>New York</u> in 1969 in front of 400,000 concert-goers and featured some of the top rock musicians of the era; For the first time in history, a human being sets his foot on the <u>Moon</u>, in the <u>Moon landing</u> of July 1969; <u>China's Mao Zedong</u> executes the <u>Great Leap Forward</u>, a disastrous attempt to modernize the Chinese economy that ended in severe grain shortages and the deaths of tens of millions of people; U.S. President <u>John F. Kennedy</u> in the <u>presidential limousine</u>, minutes before his <u>assassination</u> on November 22, 1963; <u>Martin Luther King Jr.</u> makes his famous "I

The **1960s** was the decade that started on January 1, 1960, and ended on December 31, 1969. It was the seventh decade of the 20th century.

The 1960s term also refers to an era more often called **The Sixties**, denoting the complex of inter-related cultural and political trends across the globe. This "cultural decade" is a bit later than the actual decade, beginning around 1963 and ending around 1973, and in particular the years 1965-73 are sometimes referred as the "High Sixties".

In the United States, "the Sixties", as they are known in popular culture, is a term used by historians, journalists, and other objective academics; in some cases nostalgically to describe the counterculture and social revolution near the end of the decade; and pejoratively to describe the era as one of irresponsible excess and flamboyance. The decade was also labeled the Swinging Sixties because of the fall or relaxation of some social taboos especially relating to sexism and racism that occurred during this time.

• Social and political movements/ Counterculture/social revolution

In the second half of the decade, young people began to revolt against the conservative norms of the time, as well as remove themselves from mainstream liberalism, in particular the high level of materialism which was so common during the era. This created a "counterculture" that sparked a social revolution throughout much of the western world. It began in the United States as a reaction against the conservatism and social conformity of the 1950s, and the US government's extensive military intervention in Vietnam. The youth involved in the popular social aspects of the movement became known as hippies. These groups created a movement toward liberation in society, including the sexual revolution, questioning authority and government, and demanding more freedoms and rights for women and minorities. The

<u>Underground Press</u>, a widespread, eclectic collection of newspapers served as a unifying medium for the counterculture. The movement was also marked by the first widespread, socially accepted drug use (including <u>LSD</u> and <u>marijuana</u>) and <u>psychedelic</u> music.



Chapter2: Design Theory and Design Principle

2.1 Design Theory

My Oldies Square is a Theatre community. It will include an "oldie", retro, or art movie theatre and music hall. The main style of this theatre will be "oldies" or retro, which will be alternated to show art movie, concerts, and event showcases. This Oldies Square will represent a space of nostalgia for the period of 1960s, 1970s, and 1980s. The theory of design space will be a new way of oldies style with a nostalgia concept.

Relationship between Oldies, Popular culture, Culture movement, and Pop art.

"Oldies" is described as the style of art in the period between 1960 – and the 1980. The significant of this period is the history of the pop culture movement and this was influenced so much by popular culture in the theory of pop and the emergence of pop art, which can be called by the alternate name, New Realism.

Popular Culture, there was so much movement of people in that period, that will influence every subject throughout history.

"Pop Art - A Movement in the Sixties.

What's Pop? A play on words, a lifestyle, a particular generation, a new understanding of art?

And What is Pop Art - The term for an influencial cultural movement of the sixties?

Pop Art does not describe a style; it is much rather a collective term for artistic phenomena in which the sense of being in a particular era found its concrete expression. When we apply the

epithet "Pop" to art, we tend to associate it with various superficial aspects of society. Pop Art performs a balancing act between the more euphoric, progress-orientated prospects of the epoch on the one hand, and its pessimistic, catastrophic outlook on the other. The increasing commercialization which permeates..."³.

Pop Art is most popular medium to express the movement people's culture in 1960s – 1980s. Competitive advertising of industrial products create mass production, goods, art pieces and advertising. It is combination of consumer society, media, stars, and modern life. "Everything is beautiful," raved Andy Warhol, in raptures at the glamour of modern life, consumer society, the world of the media and its stars. And in so saying, he was expressing the feelings of a generation who felt their age was dawning, an age of "love" and "freedom". In art, too, a new attitude towards the present was making itself felt. Jasper Johns, Roy Lichtenstein, Claus Oldenburg, Robert Rauschenberg, James Rosenquist, Tom Wesselmann, Richard Hamilton and many other artists were discovering Marilyn Monroe, Elvis Presley, Coca Cola, comics, advertising, household appliances and food cans as an independent aesthetic reality".

"To understand Pop Art, we need to understand social movement at that time before knowing about the birth of Pop Culture. In WWII, American culture changed so much to an urban society with increasing industry, that it made American society capitalist. That create many things from industry and capitalism were spawned, such as billboards, neon lighting, and superstars"

³ Pop Art, "Tilman Osterwold", Taschen

⁴ Pop Art, "Tilman Osterwold", Taschen

Signatures of Design Theory

Signature of Oldies

- Music or entertainment (music, movie, and art)
- 1950s, 1960s, 1970s, and 1980s

Signature of Pop Culture

- Movement of culture to be industrial culture or capitalism
- Freedom of Expression
- Consumer Society

Signature of Pop Art

- Mass production (Quantity production and Rapid making)
- Poster advertising, billboard chart
- Neon lighting (The new lighting technology at that time)
- New Realism

The Signatures of Oldies Square Theory

The signature of 1960s – 1990s style will be used in design theory, which includes are the following;

- 1. Modern Life
- 2. Consumer Society
- 3. Age of "love" and "freedom"
- 4. Common life Household appliances, food cans etc.

- 5. Art media, music media, advertising media
- 6. Super Stars (Marilyn Monroe, James Dean, and Elvis Presley)
- 7. Comics
- 8. Neon Lighting
- 9. Industrial society: mass production
- 10. Easy to understand

Apply in Design Theory of Oldies Style

- 1. Physical (Design = Pop Art)
- 2. Psychological (Freedom expression)

Benefit from Research

The reason for the movement of popular culture at that time in American society, which was the most influential any around the world, will give inspiration to us to know how is social movement and character. This understanding can be adapted to solve some social problems, especially youth problems in our society, and give dimension to my project. Then, this theatre and music hall community can be a place for the new generation of Thai youth that will benefit from the solving of some social problems. Nowadays, there are a number of the new generation who are increasingly interested in a nostalgic style, so it will be a response to the youth, and supporting in their abilities to express their talent, and it will support in the long term a knowledge society, and develop our country.

Acoustic Design

- 1.1 Types of auditorium proposal
- 1.2 Acoustic Material

1.1 Types of auditorium proposal

Rooms for speech

A high level of speech intelligibility is the main goal in the rooms. Factors affecting intelligibility are the source level, background noise and reverberation. Low signal-to-noise ratios, especially in the frequency range of speech, make it difficult for listeners to understand a speaker. Noise criteria (NC) provides guidelines for acceptable background noise levels.

Rooms for music

The subject of space for live music performance has filled volumes, and is considered to add new insights and increased knowledge: and growing computing power aids in design and evaluation. However, more elusive and intuitive aspects are still part of the design process, the subjective impression of an audience is still the ultimate measure of a successful project.

Multipurpose rooms

Room that serve various purposes, such as speech and music, pose acoustic challenges.

Variable Acoustics

- 1 Acoustic conditions in a space can be varied through many different means.
- 2 Pulling a curtain over a hard surface to a completely computer-controlled adjustable environment
- Contemporary concert halls may feature complex moving canopies or shutters, which can vary the air volume in a space, as well as the geometry, and the level of absorption, reflection and diffusion.
- 4 Low-tech versions of the same concepts have long been utilized in studios and performance spaces.

1.2 Acoustic Material

- 1. Perforated metal sheeting: Absorbing resonators in the wall and in some rooms in the ceiling, covered and concealed by perforated metal sheeting.
- 2. **Perforated plasterboard**: The ceilings are clad with sheets of perforated plasterboard.
- 3. **Tube-traps**: Installed in the corners of the rooms are excellent low-frequency absorbers.
- 4. Flexible lining shells of plasterboard: Installed in some rooms to act as low-frequency absorbers.
- 5. **Foam structures:** Fine tuning for high frequencies was accomplished by applying colourful highly absorbent foam structures as necessary, particularly in sharp angles.
- 6. **Double-sealed door panels**: The door were checked for sound transmissions and sound-insulated wherever necessary using double-sealed door panels of sufficient weight, sound proof door frames and flush rubber seals.

- 7. **Melamine resin foam elements**: To reduce resonance in the windows, melamine resin foam elements were installed between the panes.
- 8. **Timber cladding:** Some of the timber cladding in the rooms was designed as undulating paneling for low-pitch absorption.



2.2 Case Study

- Primary case study
 - 2.2.1 Esplanade Theatre
 - 2.2.2 Art House RCA
- Secondary case study
 - 2.2.3 Jerome Robbins Theatre



2.2.1 The Esplanade: Primary case study

Studying for : cinema complex facilities and interior design

Architect: The Office of Bangkok Architects(OBA)

Total Area : 105,187 sq.m

Location : Ratchadapisek Rd., Dindaeng, Bangkok

Year of build: 2006

Service Hours : 10.00 am - 1.00 am

Target group: every person

Number of seating: 12 megaplex cinemas, 280 seats for each.





Concept

Art and Entertainment Center. The purpose of this Entertainment complex is to be an Arte-tainment Avenue, which has the purpose of supporting Art and Culture in 7 categories of art, including music, sculpture, painting, poetry, performing art, architecture and celluloid art (movie).

The design principle is a combination of art and entertainment, as the concept of this building is "Living in Entertainment Art". The space facilities purpose is for art activities and a shopping arcade. The project uses any event activities to be an interesting point for customers who have their own lifestyle and class.



(Outside view)

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(Outside view)

Architecture

Reinforced concrete structure.

There are 6 storeys.

Space is spread in a long line, and it is divided into 2 main spaces; theatre and shopping arcade

The department store for 5 storeys.

The underground floor is the space for restaurant.

Clear glass wall envelopes are used for the road side of 1st-5st floor.

Solid walls are used on the 6rd floor.

The parking area, which is next to project building, is at the rear of the building on the north side. It can contain 800 cars.

Oval shape planning.

The decorated tilted column in the interior space at the main circulation of the atrium

The rear building is solid wall.



(Top View)



Idea of design

The main idea is the name of The Esplanade. Esplanade means the stream that is brought inside the building passes the feeling of a stream to the people who come inside the building and outside too.

Representing to the modern, glossy metals material and texture are used everywhere, for example, at the counter of the ticket booth and snack booth, on the big columns, and the advertising board. In the ceiling at the second hall, there is ornate metal to emphasize a modern style.

Material:

Crystal, glazing, reflected glass: in important places. For example, counter,

ticket booth, reception, and lobby

Clear glass : Balcony

White painting cover with light : Ceiling

Light cover design : Blue cover light at ticket booth

: Warm white light at surrounding area (1-4

SIMPloor) 969

Concrete material

: Column

Floor Material:

Granite, which is supported in the prime area.

Color mood:

White color : ambient warm white light.

Violet color : the main design color of the theatre, it can represent fun and seek. It is suitable for the entertainment space.

Blue color : at the light cove, for calming and not distinct the eyes when watching movies.

Lighting: at arcade

Emphasize more lighting in important area. For example, at the ticket booth area, snack booth, entrance area of cinema

Cove light : hiding in cove ceiling designed pattern along with zigzag crossed line. Warm white light. Generate whole area ambient light.

Down light :

1 st floor

Hiding in cove fluorescent ceiling designed pattern along with zigzag crossed line. Create warm white light



Down light: are use in any surroundings, which gives less light than in important areas.



White color : Ambient with warm white light.





Advantage & Disadvantage

Advantage:

- 1. New building, creating an interesting environment
- 2. Underground tube (MRT), very comfortable to come from anywhere around Bangkok.
- 3. It is located in the center of the city.
- 4. Surrounding it are many people from night entertainment, offices, and schools, so there will be many target groups for supporting.
- 5. Several activities are provided which will mean several target groups of people, such as the school of music and performance, the extreme park, and entertainment facilities like ice skating, which make this building different from other nearby department stores in its ability to attract people to come to this building.

Disadvantage:

1. It will have the competitor like Central Plaza, which is going to be finished during construction.

Analyze the special function of The Esplanade

Ice skating, extreme park, center for children music school and performance are special functions for this floor, which this department store are including more than 1 special to be support itself to attract people and make a lot of people to come here. Actually, the Ratchadapisek area has not been successful for department store for a long time like Robinson and Jusco.

The concept activity for culture make a different identity to others, so it will be attracted youth to use activity service.

Electrical system

• Electrical system:

Electrical room and generator room, which are located on each floor. These are at the vertical electrical system of the building

• Sanitary system:

Gravity downfeed



2.2.2: Art House RCA: Primary case study

Studying for

: Art Theatre, event facility, and inside theatre design

Total Area

: about 3,000 sq.m

Location

: 31/8 RCA Rd., RCA Plaza, Bangkapi, Huaykwang, Bangkok

(UMG and Tops Building)

Service Hour

: 11.30 am - 10.00 pm

Target group

: Working person, kids, families, friends, and lovers

Number of seating

: 2 Theatres, 136 seats for each.

Style of movie

: Art, indy, and rate movie

Activity Facilities

: DVD rent shop, coffee shop and Restaurant

Event

: Movie promoting and events

Special event

: Place for first round of Academy Fantasia

Special function

: place for rent any activities, taking advertising photo, and talking for

business contact.

Customer Behavior

*Customers willing to watch movie only not for other objective

*Place to contact businessman and superstars

Programing of Movies

Only art, indy, and rated movies which have received a prize will be run in this Art House RCA. These will be run throughout service hours.

Activity support art movie

DVD renting and saling shop, Promoting new indy movies (*Dvd rent shop : price 99 baht.)

Theatre and retail shop management

There are many retail shops at 1st floor of RCA Building. On the 2nd and 3rd floor there is no retail shop, but there is a go-cart riding area.

Inside Art House RCA, on the 3rd floor of the building, the restaurant and DVD rent shop are a rented area inside the owned area of Art House RCA.

Event

Period: 1 - 2 days

Relationship with outside facilities

• RCA Building:

1st floor : Tops Supermarket, retail shop, beauty center, game center, key and shoe

fixing.

2nd floor : RCA Kart, Rama Theatre, and Toilet of building

3rd floor : Art House RCA Theatre, Bowling (Closed)

• Opposite Building:

Starbuck, Music House (Practice room), toilets









Toilet

5 toilets for women, and 4 wash sink

4 toilets, 3 urinal, 3 wash sink





Staff (4 persons)

- 1. Ticket sale
- 2. Control room man,
- 3. Ticket check man (The first and last person who will open and close this house everyday.)
- 4. House keeper

*Out source - Mechanical and electrical Service

Toilet

5 toilets for women, and 4 wash sink

4 toilets, 3 urinal, 3 wash sink





Staff (4 persons)

- 1. Ticket sale
- 2. Control room man,
- 3. Ticket check man (The first and last person who will open and close this house everyday.)
- 4. House keeper

*Out source - Mechanical and electrical Service

Technical (Picture inside the control room)



Concept

Art and indy movies around the world, that have received prizes.

"House RCA gives the royal treatment to films much ignored by the Hollywood-crazed crowd.

Design that makes the hand tremble because it's not just a politely-posh lobby with bold, erratic art on the wall; it's a movie house, a film theater, not a crowded mall cineplex. House RCA is a boutique cinema in Bangkok that only screens alternative cinema (indie and art films from all over the world) in its two theaters but the more hardcore alternative. Here is the hotel gloss of its architecture and layout.

The space, physical and emotional, is quite overwhelming. Leather-bound armchairs and sofas are scattered around the lobby right in front of the ticketing area. Go further to your left and you will see a DVD Library and a cafe. At the time that we were there, a photo exhibit of Thai film Eternity (we caught the Director's Cut version) has spilled onto the cafe so we decided to have coffee with its actors Ananda Everingham and Ploy Chermarn"

- Boutique Cinema
- Lifestyle
- Independent
- Art
- Not crowded

¹ http://spaceencounters.blogspot.com/





(Movable sculpture)

(Outside view of Art House RCA)

Material: at the lobby and reception

Dark Wood : Door, column, reception(ticket booth), cabinet, furniture, all

over the interior use dark wood is used(brown color)

Metal Glaze : Edged with wood

Crystal, glazing, : Counter, ticket booth, reception, lobby

Clear glass : Wall at the display area

White painting reflected warm whote light: Ceiling

White glossy floor : Floor

Wood : Floor

Wall paper : Dark yellow pattern

White Container pattern : prefunction lobby

Floor Material:

Concrete with white shiny color.

Color mood:

White color : ambient with warm white light.

Dark Wood : to make the environment look old

Lighting:

Crystal vintage Chandelier

: Main Lobby, restaurant, to spark specific area

Vintage wall lighting

: Lobby and restaurant to create a vintage style

Down light

: are used at circulation area to guide path.



Wall paper: Dark yellow pattern

all over the interior dark wood is used



Crystal vintage Chandelier
: Main Lobby, restaurant color

Dark Wood : Door, column,
reception(ticket booth), cabinet, furniture,



Material look like container: the material of theatre number that use look like a material of container

: at prefunction lobby



Down light: warm white downlight are used at circulation, which gives a direction path.



Zoning and Facilities

• Public Area

- o Main Lobby
- o DVD Rent Shop
- o Restaurant (Snack Bar, Coffee)
- o Event Hall
- Corridor
- Toilet
- o 2 Theatres

• Private Area

- o Staff area, office Area (Behind the ticket booth)
- o Back of house (Cooking, Storage)

Control Room

o 2 Movie Control Rooms (For each 2 of Theatres)

Percentage Zoning

Theatre

: 40 %

Lobby Area

: 10 %

Entertainment area

: 10 %

Restaurant

: 10 %

Staff area

: 10 %

DVD Rent

: 5 %

Corridor

: 5 %

Back of house

: 5 %

WC

: 5 %

Advantage&Disadvantage

Advantage:

- Identity Boutique Theatre, creates different style from other cinema companies, which emphasize current movies.
- 2. In midtown working office.
- 3. Near RCA Pub, where people are familiar;
 - It is located on 3rd floor, where is not easy to get to
 - Less maintenance, escalator are often out of order
 - Far from people, it is not crowded

Analyze the special function of The Esplanade

Art House RCA is the boutique art theatre style, and attract only one specific target group. At the same time, the theatre house itself has its own identity. It is very a famous place for special movies and events. Many people never go there because it is quite difficult to get there compared to other theatres around Bangkok, which are attached to department stores. Therefore they are more worth more when people go out to shop, eat, and watch movies in the same place.

2.2.3: Jerome Robbins Theatre: Secondary case study

Studying for

: Acoustic application

Total Area

: 46,000-square-footthe six-story, concrete-and-glass structure

Location

: 450 West 37th Street, Jerome Robbins Theater, WASA/Studio, New

York City, NYC

Year of Build

: November 2005

Owner

: Baryshnikov Arts Center

Completion Date

: January 2010

Total Construction cost: \$6 million

Target group

: Working person, kids, families, friends, and lovers

Number of seating

: 299 seats

Activity Facilities

: performance and dance studio

Special function

: dance studio practicing

Establish

Established as a creative laboratory and performance space, the center comprised four daylight-filled dance studios, a studio theater, and offices when it opened in 2005.





Concept

- Established as a creative laboratory and performance space, a new state-of-the-art performance venue for the Baryshnikov Arts Center (BAC)
- a non-profit performing arts group based in New York City and headed by renowned choreographer Mikhail Baryshnikov.
- The theater design involved a complete retrofitting of an existing theater within an arts complex located in Manhattan's West side.
- The client's goal was to create a high-tech performance space flexible enough in its design to accommodate dance, drama and musical events.
- Theater was to create a space that heightened the theatrical experience by enhancing the connection between audience and performer.
- The experience of the space is intended as an overture to the theatrical productions, and one that creates an expectation of quality, resourcefulness and creativity.
- BAC is also dedicated to building audiences for the arts by presenting contemporary, innovative work at low- or no-cost to ticket buyers.

Idea of Jerome Robbins

"The idea was to maximize the size of the room," admits Kapell. But then, he says, "The thing I find most satisfying and aesthetically pleasing about the project results from solving technical issues.

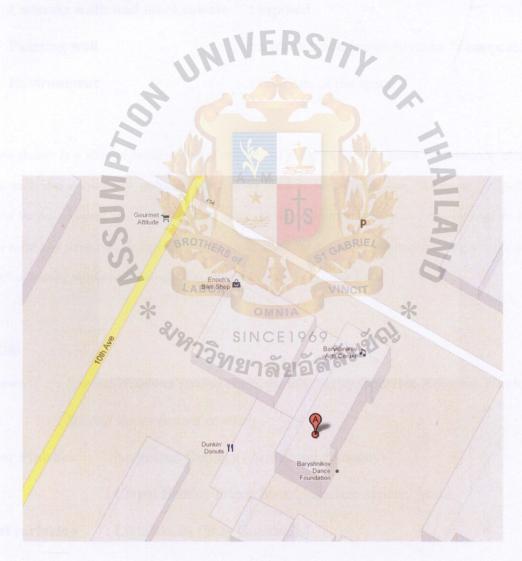
"This project was designed in close collaboration with the global consulting firm ARUP, whose Performing Arts Group is responsible for the design of theatrical lighting and acoustical systems.

ARUP also assisted us in the design of the orchestra and balcony seating, the control booth design and sightline analysis. Inserted into this existing blank box is a new "floating" mezzanine, to bring the total capacity of this theater to 299 seats."

¹ http://www.archdaily.com



Theatre



(Map)

Structural System

Existing building

: Reinforced concrete

Interior construction

: Steel construction for Orchestra hall & Balcony and gallery

catwalks. Reinforced concrete floating floor.

Atmosphere

Textural juxtaposition

: refined and rough surfaces

Concrete walls and mechanicals

: exposed

Painting wall

: a warm black-brown to make "disappear."

Environment

: rawness, of the space

"The new theater is a textural juxtaposition of refined and rough surfaces in which the architects exposed the concrete walls and mechanicals, painting them a warm black-brown to make them "disappear." Kapell wanted to express the full potential, and rawness, of the space. So the crew stripped the room, then isolated the box from external noise and rumblings by segregating the plant, silencing ductwork, and underpinning a resilient sprung floor with a floating reinforced-concrete slab 4 inches above the existing slab."

Material

Windows

: Special Windows (sound control): 900 Series Operable Acoustic Window

Doors

: Special doors (sound control)

Interior Finishes

: Acoustical Ceilings (Armstrong company)

Floor

: Carpet Bentley Prince Street, concrete expose, wood

Special surfacing

: LightBlocks (Stair Guardrails)

Limited palette of five materials and two paint colors.

The raw Cor-Ten steel railings echo the rough concrete of the box.

² www.bacnyc.org/rent/jrt

Refined wood, acrylic panels and carpet

The rough and the smooth, the raw and the defined

: create an appropriate contrast.

:create a dialoque analogous to

the theatrical experience.

Lighting Design

Light with dimming system computerize lighting controls to create Theatrical ambient and mood.

Adjustable Downlight at the ceiling of the theatre

Tracking Stage Light



Large steel grids: receive modular sound-absorbing panels along the same walls







Expose Concrete

Acoustic Materials

Acoustical Wood Veneer Wall Panels: Rulon Company

Acoustic wall panels: Rulon (slotted wood veneer); Decoustics (fiberglass)

The building's dense concrete walls: good sound insulators, highly reflective sound

Perforated, sound-absorbing wood-veneer panels: on the back wall

Bass absorbing insulation: along the uppermost section of the longitudinal walls.

Large steel grids: receive modular sound-absorbing panels along the same walls

Hung movable velour drapes: on either side of the stage

"According to acoustician Rachid Abu-Hassan, the building's dense concrete walls are good sound insulators. However, as the dense concrete is also highly reflective, introducing soft, absorbing finishes was required. To achieve the flawless acoustics desired, he installed perforated, sound-absorbing wood-veneer panels on the back wall, and bass absorbing insulation along the uppermost section of the longitudinal walls. For additional reverberation control in the event of amplified sound, the acousticians applied large steel grids that receive

modular sound-absorbing panels along the same walls, and hung movable velour drapes on either side of the stage."

"The heart of the project is Kapell's stadium seating, an ingenious structure centered in the space so that the lobby lounge could be tucked behind it. Framed in thin, pre-finished Corten steel and fitted with 238 plush, bench-style seats, it is configured to bolster sound quality and sight lines, improve circulation, and accommodate stage lighting and a balcony control room."

"The idea was to maximize the size of the room," admits Kapell. But then, he says, "The thing I find most satisfying and aesthetically pleasing about the project results from solving technical issues."



Acoustic Wall Panel

Large Steel Grid



Perforate sound absorbing material

Zonning and Facilities

• Public Area

- o Main Lobby
- Event Hall, state-of-the-art venue for more fully realized dance, music, and theater events
- Lounge
- o Corridor
- o Stage
- o a studio theater
- o Orchestra Seating
- o Balcony Seating
- o Restroom
- o four daylight-filled dance studios

• Private Area

- o Staff area, office Area
- o Change Room
- o Storage Room

• Control Room

- Mechanical Room
- o Control Room

Percentage Zoning

Public area :50%

Private area :30 %

Control area :20 %

Advantage&Disadvantage

Advantage:

1. Creative function and space facilities

Disadvantage:

1. No support to multipurpose use



Chapter3: Data Collection

3.1 Human Factors and Client Profile

3.1.1 Types of user

- 1. Guest
- Kids
- Teenage
- Adults
- disable
- Staff
- Officer
- Housekeeper, mechanical, and technician
- Temporary Staff
- Star
- Part-time staff
- Outsource service: exhibitor, light and sound controller

1. Guest

Sychological needs





- 1.1 Kids (5 12 years old)
- Children
- Students

- Safety
- Comfortable
- Education





- 1.2 Teenage (13 20 years old)
- Students
- Audience
- Musician
- Actor, actress
- · Quality of sound
- Comfortable
- Education
- Aesthetic appearance
- Friendliness
- Enjoyable
- · Relaxation





- 1.3 Adults (20 UP)
- Working people
- Audience
- Musician
- Actor, actress

- · Quality of
- sound
- Safety
- Comfortable
- Education
- Aesthetic appearance
- Friendliness
- Enjoyable
- Relaxation

2.1 Officer, Administrator • Receptionist • Manager 1.2 House Keeper, Mechanical Service ABOR MANA Psychological needs • Safety concerns • welfare • Safety concerns • welfare

3. Temporary Staff	Characteristics Characteristics	Psychological needs		
	1.1 Star • Actor, actress • Singer • Teacher • Expert speaker	 Quality of equipment Comfortable Security Aesthetic appearance 	Playful Enjoyable Relaxation Welfare	
	1.2 Part-time staffMechanical serviceElectronica service	Quality of equipmentSecurityWelfare		

49

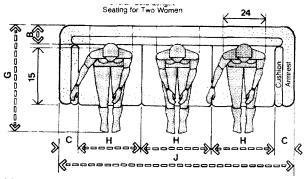
3.1.2 Physical and Psychological need

The relationship of female and male body dimensions to sofa seating. In order to determine how much space the seated body requires. The anthropometric measurements of major interest here are maximum body breadth and buttock-popliteal length.

		·
	in	cm
A	42-48	106.7-121.9
B C	6-9	15.2-22.9
C	3-6	7.6-15.2
D	28	71.1
D E F	62-68	157.5-172.7
F	90-96	228.6-243.8
G	40-46	101.6-116.8
H	26	66.0
1	58-64	147.3-162.6
J	84-90	213.4-228.6

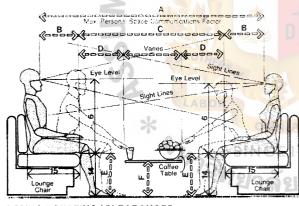
134 INTERIOR SPACE/DESIGN STANDARDS

Male dimension s; base on 95th percentile data, the maximum body breadth dimension is 22.8 in, or 57.9 cm, with a nude subject, allowing for clothing and some body movement as well as change in posture and position, a minimum dimension of 28 in, or 71.1 cm, is suggested as a width allowance for a seated person. The overall dimension, therefore, included individual width allowance. A range of 3 to 6 in, or 7.6 to 15.2 cm, is suggested



SOFA SEATING / FEMALE

Using the bottock-popliteal length of the smaller person and adding a similar allowance of 6 to 9 in, or 15.2 to 22.9 cm, for backrest construction as well as a minimum zone in front of the sofa for foot movement, an overall depth dimension of 42 to 48 in, or 106.7 to 121.9 cm, is suggested. The relational for the drawing at the bottom dealing with the female data is the same. The information should prove not only useful in providing a keener insight into the general relationship between body size and furniture but of specific value in establishing preliminary design assumptions for institutional seating in spaces designed exclusively for the use of fames or of females. In spaces where seating is to be used by both sexes, the larger dimensions should apply.



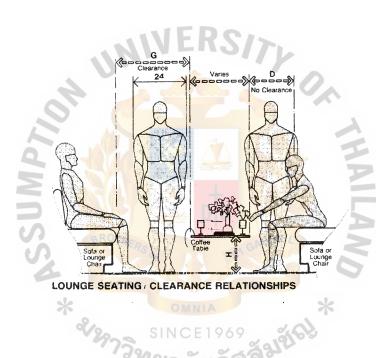
Q.E	in	cm
A	84-112	213.4-284.5
В	13-16	33.0-40.6
C	58-80	147.3-203.2
D	16-18	40.6-45.7
E	1417	35.6-43.2
F	12-18	30.5-45.7
G	30-36	76.2~91.4
Ηо	12-16	30.5-40.6
10	60-68	152.4-172.7
J	54-62	137.2-157.5

LOUNGE SEATING / CLEARANCES 136 INTERIOR SPACE/DESIGN STANDARDS

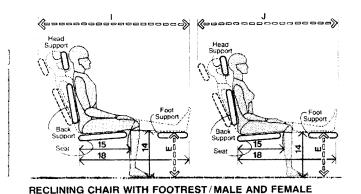
The drawings deal with the major clearances involved in lounge or conversational seating. The top drawing is based on a conversational grouping in which the clearance between the front of the seat and the edge of the table is limited between 16 and 18 in, or 40.6 and 45.7

cm. This clearance may require some degree of body contact or sidestepping for circulation and access.

Anthropometrically, however, it does accommodate human reach, permitting the seated person access to the coffee table without rising. The drawing also suggests a dimensional range for verbal conversation.



The second drawing illustrates a similar furniture arrangement that would permit circulation with full head-on access. The clearance indicated, however, to permit such access would make it impossible for most people to reach the coffee table from a seated position. This could be extremely undesirable in terms of food, beverages, and cigarettes. Given the choice between full head-on access and the accommodation of reach, the authors opt for reach and recommend the smaller clearance.



	ın	cm
A	84-112	213.4-284.5
B	13-16	33.0-40.6
B C D E G	58-80	147.3-203.2
D	16-18	40.6-45.7
E	14 17	35.6-43.2
F	12-18	30.5 45.7
G	30-36	76.2-91.4
H	12-16	30.5-40.6
	60-68	152.4-172.7
J	54-62	137.2-157.5

136 INTERIOR SPACE/DESIGN STANDARDS

WERCA

The drawing suggests an overall allowance for easy chair or reclining chair seating, including footrest, The buttock-leg length of the larger person is the most significant anthropometric measurement in establishing this clearance, it should also be noted that the height of the footrest is also a function of seat height. The footrest should be a few inched below the height of the seat

This drawing show the basic dimenions for the design of banquette seating. The lack of armrests makes if difficult to define seat boundaries. The user, therefore, tends to establish his own territory by assuming a desired sitting posture and placing personal articles next to him, such as a brief case, purse, or package. Since the nature of this type of seating can permit some form of body contact

3.2 Function and facility study

unction and fa Area	Function	Guest	Staff	Temporary Staff
1. Lobby	Main Hali	*	J	*
-: :	Reception	•	•	4
*** ** *** ****	Lobby Lounge	and the second second of the second of		
	Waiting Area	•		•
2. Front Office	Office			
3. Event Hall	TemporaryExhibition	•	•	
J, LYCKE HAN	Storage	4	•	
4. Ticket Booth	Ticket Counter	•	•	
4. HEREE BOOKI	Storage		•	77
5. Light Meal Bar	Counter Cashier			
5. Light Meal bar				
	Small Pantry			·
6. Souvenir Shop	Cashier Counter			
	Showcase	· · · · · · · · · · · · · · · · · · ·	ger agen, g. i gyyget et filosoo kille begyddyngag ger oeg systy system i delesi m	The second secon
	Display			
	Storage	water a second of the second of the second		
7. Hall of fame	Small Open Hall		*	
	Counter Information	A SERVICE SERVICE CONTRACT CON		
	Resting Corner			
	Mini Theatre	***************************************	The second of th	
	Hall of fame	*		
8. Library	Counter Information	*	•	
	Book renting Counter			
	Movie renting Counter	M		
	Reading Corner	•		
The second secon	Audio room	*		
	Mini-Theatre room	*		
9. Restaurant	Cashier Counter	The state of the s		
	Back of House		BRIEL .	
th.	Cooking room	5		
	Loading Area		•	
10. Bar	Lounge BOR	V	INCIT	
_0	Bar	•		
	Pantry	NWIA		
	Cooking		•	
11. Theatre	Seating Row		The second control of	
	Stage 3970	0 000	37.	
	Backstage	ାରଥ ପ୍ରଶ୍	•	•
	Control Room		*	•
	Fire exit	•		***************************************
12. Toilet	Female Toilet			•
12. TOREL	Male Toilet	MARKET MINISTER CONTRACTOR AND	the state of the s	****
and the second s	Storage	and the state of t		- Production of the Control of the C
13. Staff Area	Locker Room		*	
	Toilet and Shower			-+
	Meeting room			1
14. Part-time staff area	Powder room			*
v.v. vc stan area	Toilet and Shower			*
				*
15 Macha-!!	Star Lounge Air-Condition Control		*	
15. Mechanical room				*
	Electronic room		*	*
16. Rental Area	Retail Shop			

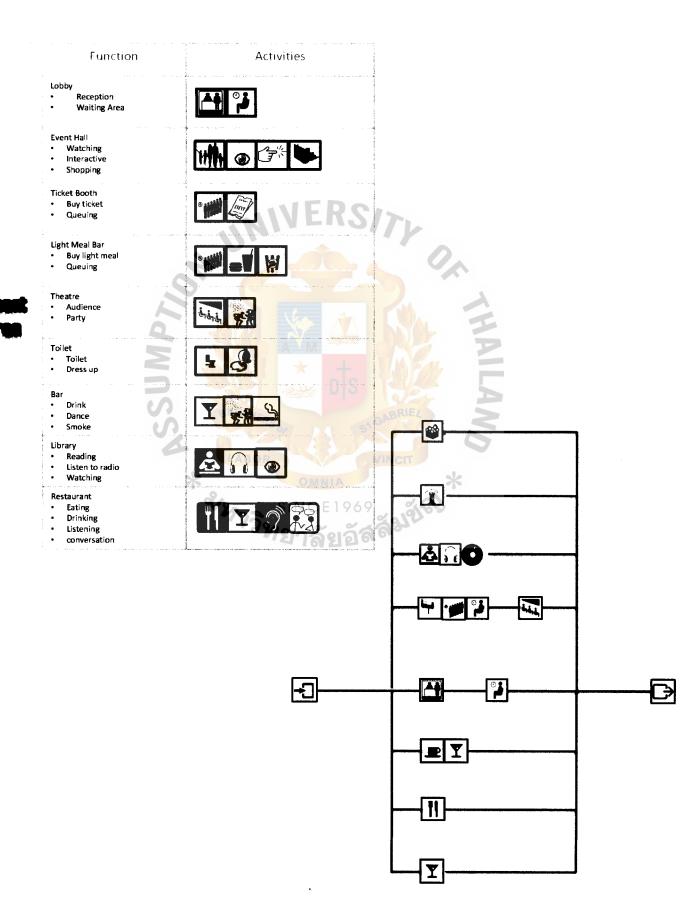
3.3 User Behavior

Timing table of user

Time Department	08.00-11.00	11.00-14.00	14.00-17.00	17.00-20.00	20.00-23.00	23.00-02.00	02.00-05.00	05.00-08.00
Lobby	All the state of t		and the section of th		er was - Jegs arrage to stay to a graph was considered	o estregiono popular possonale en estado y interesione estado e	over de statement and which are the copy of the copy o	wertenerant over var gewenten
In House Office								
Event Hall	\$200.00 (\$400.00 \cdot \	g arrango personaga da arra e y elemente de trada de la desar de la como de ser conseguir		gg gyrin fi dilikhir <mark>na e fersir e ngalirongga cano 3, se sagon</mark> gwa i 3, se	Disk of con-secure (Sept.) > 10 represent to approve 2 in the Ball with the	Consideration of the Constitution of the Const	gar saggesta kinas sana an aya sagges	page Norman 2 at a result and a graph and a superior
Ticket Booth								
Light Meal Bar								
Souvenir shop						>		
Hall of fame	-							
Library								
Restaurant								
Bar								
Theatre								
Toilet				- CHARLES				
Staff area	PARABERANDENSALERARANGES	(14kindos 11.2 to 1.2 to 1.3 to 1.4 t	ANALIKKAANKAMAKAKAKA	CHANANANANANANANANANANANANANANANANANANAN	минининининин на какажана какажа	ОХХХАХИКИМИНИКИМИНИКИ	PERENE HANARAKARAKARAKARAKARA	
Mechanical area								The contract of the same of the same of the contract o

)
A. Jan
Tersporar Staff
 employee

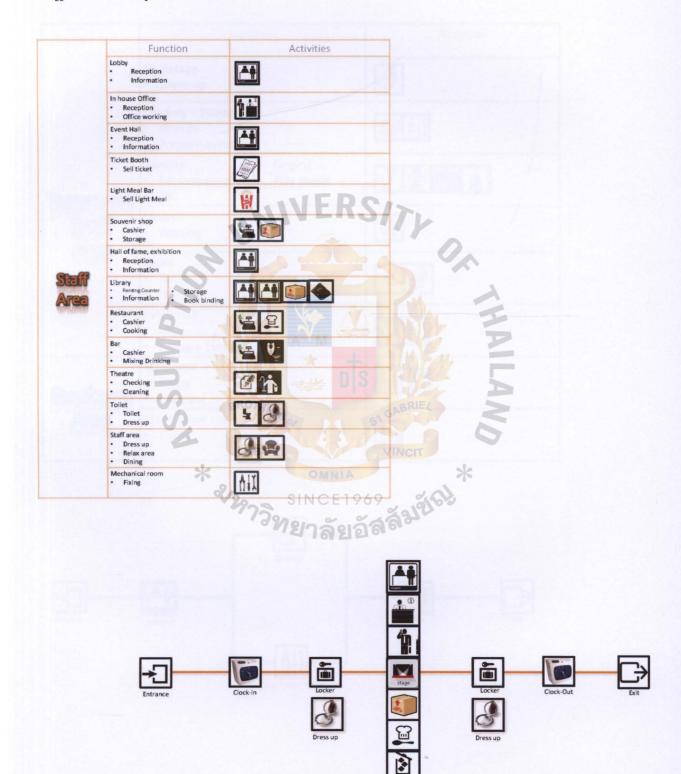
Guest user: Activity and circulation



Staff user: Activity and circulation

Function	Activities
Lobby • Reception • Information	
In house Office Reception Office working	A
Event HallReceptionInformation	R
Ticket Booth • Sell ticket	
Light Meal Bar • Sell Light Meal	
Souvenir shop Cashier Storage	
Hall of fame, exhibition Reception Information	RIEL
Library Renting Counter Information Storage Book bindin	
Restaurant Cashier Cooking	
Bar • Cashier • Mixing Drinking	
Theatre Checking Cleaning	Ø in
Toilet Toilet Dress up	4
Staff area Dress up Relax area Dining	
Mechanical room • Fixing	AIT

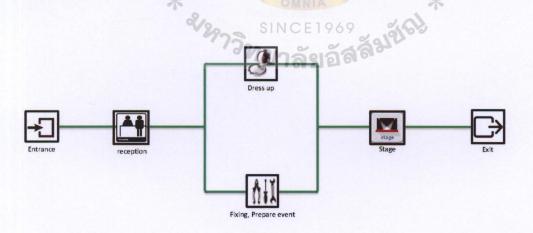
Staff user: Activity and circulation





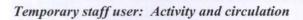
Temporary staff user: Activity and circulation

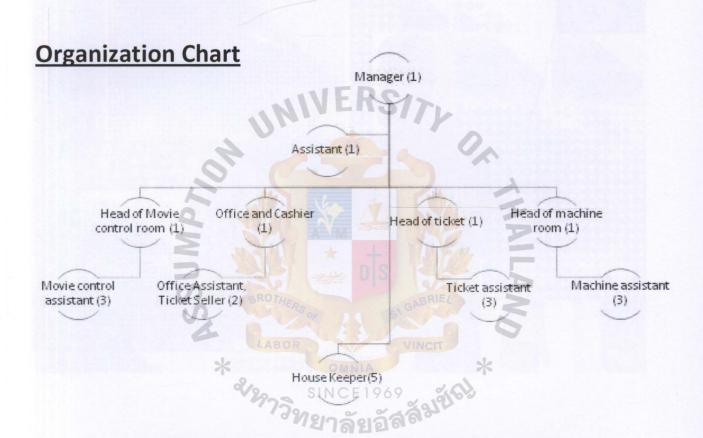
uistraavies Ch	Function	Activities
	Backstage • Dress up	
	Loading + Storage • storage • Prepare event	₩
Temporar	Theatre Performance MC MC Singing Play music	
Staff	Lobby • Waiting	
Oran	Toilet Toilet Dress up	1
	Event Hall • MC • Prepare Event	
Employee	Staff area • Fixing • Cleaning	AHI PA
Area	Mechanical area • Fixing	MI CIT





Organization chart of Scala existing site





3.4 Aesthetic form

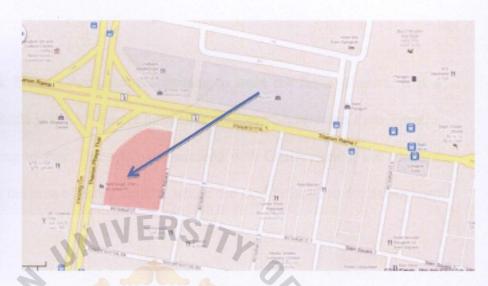


57

3.4 Site Analysis

• Existing Site (Scala Theatre)





Location:

Siam Square Soil

· Rama I Rd.

Opposite Siam Discovery, Siam Center, Paragon, and Maboonkrong Center

Area Total: 8900 sq.m.

Owner: Pisit Tansajja

Architect: South East Asia Architect

Year of Build: December 31, 1969

Service Hour: Monday – Friday (11.30 am – 11.00 pm)

Saturday – Sunday (8.30 am - 12.00 pm)

• 5 movies for each day

• Last movie at 9.00 pm

• Weekend is usually a lot of people

• Parking about 200 cars

Target group: Every person

Number of seating: 800 seatings

Concept

Western & Eastern Architecture combine to male the Scala Theatre. It is a very big theatre. Scala is the 3rd theatre built after the Siam Theatre and Lido Theatre, where are belonging to Pisit Tansajja, who succeed with Chalermkrung and planned to build theatre in the area of Siam Square, where the land belongs to Chulalongkorn University.

Architecture

Reinforced concrete

3 storeys

Combining western & Eastern style

Flamboyant like ceiling pattern

The restoration building

Material

Terazzo: Floor (terrazzo and aluminum diagonal grid)

Ornament: Carved dark wood

Ceiling: White stucco with gold metal flower

White paint wall

Lighting

Neon ighting, various color at billboard cinemas

Incandescent, warm white light on ceiling flower pattern

Fluorescense as ambient light at cove ceiling





Staff

Staff: 20 persons

- 1. (1) Manager
- 2. (1) Assistant
- 3. (4) Movie control room
- 4. (4) Machine room (control air-conditioning, open and close air-conditioning)
- 5. (4) Ticket check, security guard (at night only)
- 6. (5) House keeper
- 7. (1) Office & Cashier
- 8. (2) Ticket Sale person

*Hoiday: some member of staff will be absent

*Lunch: 12.00 pm

Work Hour:

8.30 : Open

9.00 - 11.00: First movie

12.00 - 14.00 : Second movie

15.00 - 17.00: Third movie

18.00 - 20.00 : Forth movie

21.00 – 23.00 : Last movie

24.00 : Close

Percentage Zoning of Scala Theatre

Theatre

:40%INCE1969

Lobby Area

: 25%

Restaurant

: 20

WC

: 15

Scala Facilities

- 1. Main Entrance
- 2. Lobby Area
- 3. Ticket booth
- 4. Pre function
- 5. Hall
- 6. Inside Theatre
- 7. WC.
- 8. Restaurant
- 9. Back of House
- 10. Control Room
- 11. Staff Area

Control Room: Mechanical area, maintenance area, system area.

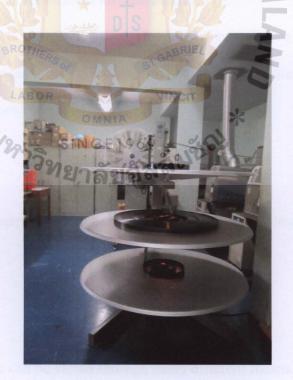




Ventilation pipe & Projector



Platter Holder of film roll



Types of auditorium proposal

Room for speech

A high level of speech intelligibility is the main goal in the room, courtrooms, etc. Facors affecting intelligibility are the source level, background noise and reverberation. Low signal-to-ratios, especially in the frequency range of speech, make if difficult for listeners to understand a speaker, Noise criteria (NC) providing guidelines for acceptable background noise levels.

Room for Music

The subject of spaces for live music performance has filled volumes, and is considered the epitome of room acoustics.

Objective values and parameters for acoustic performance exist.

Ongoing research continually adds new evaluation. However, more elusive and intuitive aspects are still of the design process, the subjective impression of an audience is still the ultimate measure of a successful project.

Multipurpose Rooms

Room that serve various purposes, such as speech and music, pose acoustic challenges

Variable Acoustics

Acoustic conditions in a space can be varied through many different means.

- Pulling a curtain over a hard surface to a completely computer-controlled adjustable environment

- Contemporary concert halls may feature complex moving canopies or shutters, which
 can vary the air volume in a space, as well as the geometry, and the level of
 absorbtion, reflection and diffusion.
- Low-tech version of the same concepts have long been utilize in studios and performance spaces

Room Boundaries

Geometry

Room shapes determine the reflection patterns for high frequencies and the build-up of standing waves for bass frequencies

3.5 Project specific

- Acoustic design
- Theatre design
- Building code

3.5.1 Acoustic design

- Reverberation
- Noise reduction
- Types of auditorium proposal

Room for speech

Room for Music

Multipurpose rooms

Variable acoustic rooms

- Room boundaries
- The objective of anti-resonance
- Absorbtive material
- Sound insulation audio material

3.5.1.1 Reverberation

Addressing the build up and decay of sound over time, is the most important aspect of room acoustics.

Reverberation times that are too long make speech perception difficult or impossible. If reverberation is too short, rooms sound "dead"

Reverberation is directly related to room volume; a great room volume results in proportionally more reverberation.

Reverberation is inversely proportional to the amount of sound absorbing material in a space. More absorbing material results in less reverberation.

Different room uses require different reverberation times.

3.5.1.2 Noise reduction

Sound levels in a room build up due to reflections from its enclosing surfaces, the size of the room and the amount of absorption in it determine the build-up of sound levels.

3.5.1.3 Types of auditorium proposal

Room for speech

A high level of speech intelligibility is the main goal in the room, courtrooms, etc. Facors affecting intelligibility are the source level, background noise and reverberation. Low signal-to-ratios, especially in the frequency range of speech, make if difficult for listeners to understand a speaker, Noise criteria (NC) providing guidelines for acceptable background noise levels.

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Multipurpose Rooms

Room that serve various purposes, such as speech and music, pose acoustic challenges

Variable Acoustics

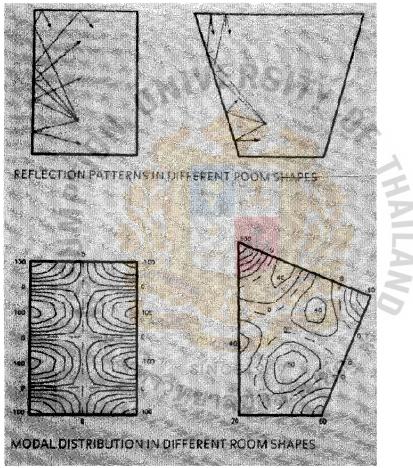
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- Low-tech version of the same concepts have long been utilize in studios and performance spaces

3.5.1.4 Room Boundaries

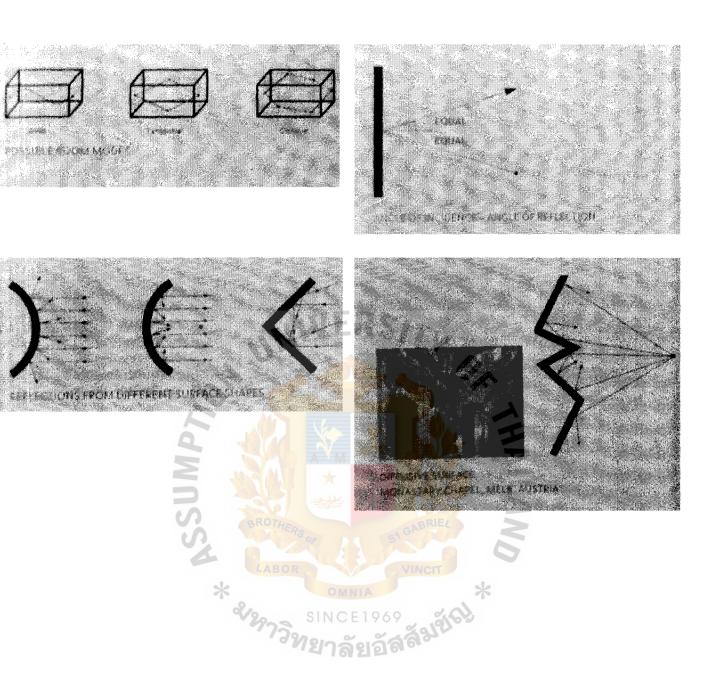
Geometry

Room shapes determine the reflection patterns for high frequencies and the build-up of standing waves for bass frequencies



Irregularly shaped spaces can permit better design control, but are also more complex to predict.

Additional, weaker standing waves exist; tangential modes between four surface, and oblique modes involving six or more surface in all three dimensions.



Reflections

Flat surfaces, with dimensions sufficiently larger than the wave-length of a sound result in specular reflections, where the angle of reflection equals the angle of incidence.

Reflection Patterns depends on the surface shape:

<u>Convex surface</u> diffuse wave fronts, creating a wide distribution pattern of the sound energy, and can often be used to acoustical advantage.

<u>Concave surfaces</u> focus wave front to one point, creating uneven reflection patterns.

Focal points of any geometric form should not be near the location of any receiver.

<u>Corner reflections</u> can be problematic because they reflect sound back in the direction of the incoming wave front.

Echoes

Distinct echoes are generally undesirable in a space. Concave surfaces can create creep echoes or "whispering galleries"

Flutter echoes can occur in room with parallel hard surfaces, or hard concave shapes.

Diffusion

Duffusion occurs when a wave is reflected from a surface and the sound energy is redistributed diffusely back into the space.

To diffuse a sound wave, the reflecting surface should generally have irregularisties at approximately the scale of the wavelength of the sound.

3.5.1.5 The Objective of Ant-resonance

- To be sound satisfactory in anti-resonance
- To be perfectly cleared of sound condition

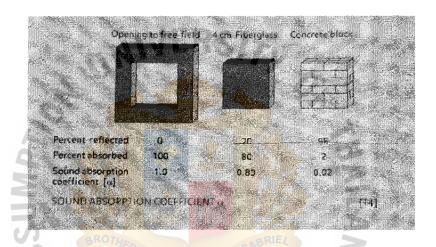
In open plan areas such as restaurants, home theatres, museums, offices and conference rooms, the space can become very noisy. This is because the wall and ceiling surfaces reflect the sound and below it to bounce back into the room hence creating echo and reverberation. So we need to consider the appropriate treatment in general interior decoration and various kinds of decorative acoustical materials.

3.5.1.6 Absorptive material

It is the property of a material and surface that absorbs sound waves, not reflect them.

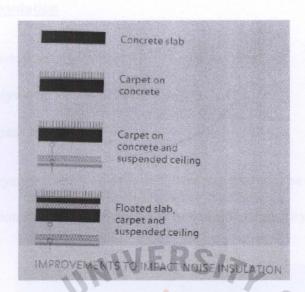
Absorption of material is depended on and affected by:

- Size
- Shape



- Location
- Mounting method used

Opening to free-field > Fiber glasss > Concrete block

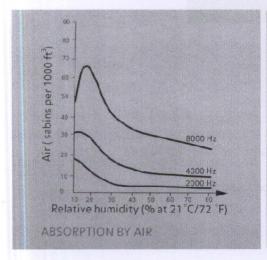


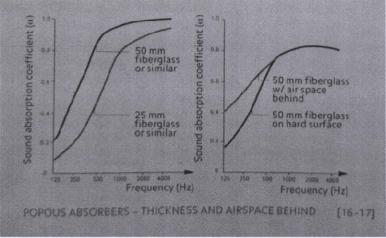
- Footsteps on the hard floors: a soft surface can be added, such as carpet.
- Impact vibrations from equipment can be reduced by the separation of source from the structure with the resilient supports

A good sound absorber: Porous Material

- wood wool cement board
- perforated wooden acoustic panel
- fiberglass wall panel

(Porous absorbers - thickness and airspace behind)





3.5.1.7 Sound insulation

- concrete
- plywood
- glass panel

To prevent annoyance from outside sound, hard material will be used to keep the sound out, which its combination installation of absorber material to be quality of sound inside interior space.



Caution

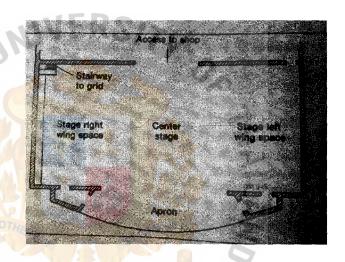
- Don't crack
- Double panel of wood or glass panel will be better than s single panel (It will make a gap between them, which will be provide a quality of sound prevention)

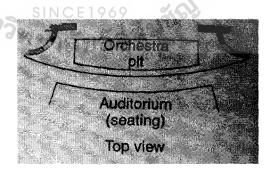
3.5.2 theatre design

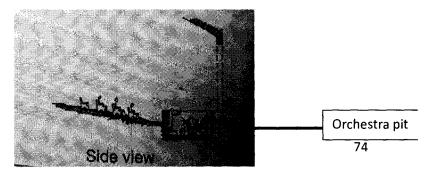
- Stage and equipment
- Formular to design theatre

Stage and equipment

- Proscenium arch
- Stage
- Wing
- Apron
- Orchestra pit
- Stage floor
- Auditorium

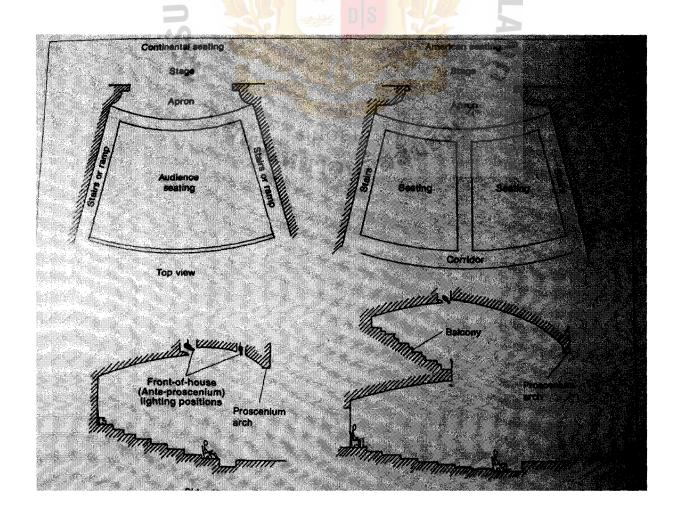


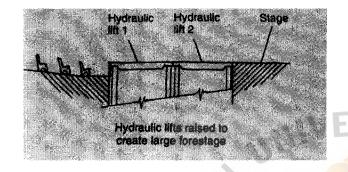


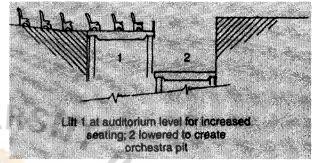


Auditorium

- Each seat approximately perpendicular to the proscenium arch.
- To reduce the reflection of the sound waves in an auditorium, none of its finished surfaces (wall, ceiling, floor) should be parallel with any others.
- The side walls out from the proscenium arch, slightly opened fan
- The rear wall is usually curved
- The ceiling slopes toward the rear of the house
- The floor is raked, or inclined, from stage to the rear of the house (Angling of floor, not only the acoustics but also the view of the stage.)
- The lighting control booth is generally located at the back of the auditorium.

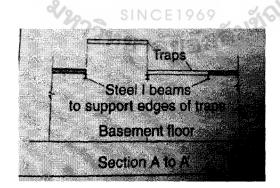




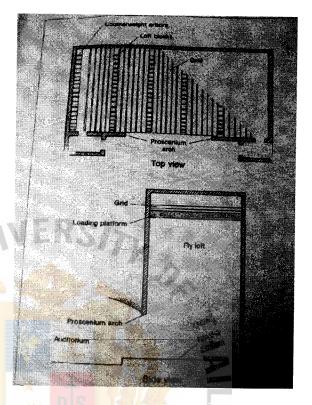


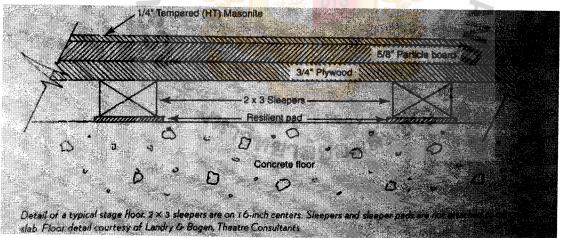
Trap

- This removable sections provide access to the space beneath the stage
- These holds can be fill with stairs, an elevator, aslide (depending on the desired visual and physical effect)



- Fly loft (Fly system)
- To fly scenery





- A good floor compose of several layers
- The subfloors should be soft wood (such as pine or plywood)
- Resilient and tough
- Hold nails and fasteners
- Floor surface Masonite

Formula to design theatre

H = height of screen

b = width of screen

y = perspective of the most people (มุมมองของคนดูที่มากที่สุด)

fz = distance from screen to the last row seat

Ha = The height from the bottom of the theatre screen

D = The height from the ground to the eye level

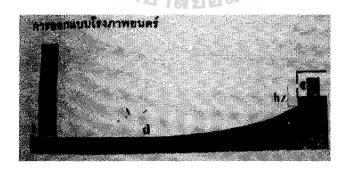
f = Distance from screen to the first row seat

Hz = the height of the distance between the center of the projector to the floor of the nearest row seating

O = the perspective from the theatre wall or the wall seat

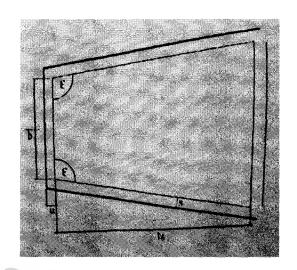
u = the distance between the screen to the back wall of the screen (the gap to put the loud speaker and the structure of the screen)

S = the width of the walkway along the wall



For the best visual cinematic experience

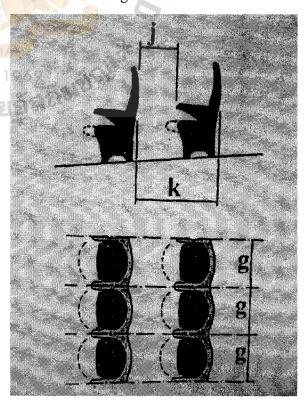
- 1. Its picture must be clear
- 2. Comfortable
- 3. Follow the dimension of theatre design



Armrest

It must be provided: 55 cm. width

*For the condition of the small theatre: can join armrest between seating.

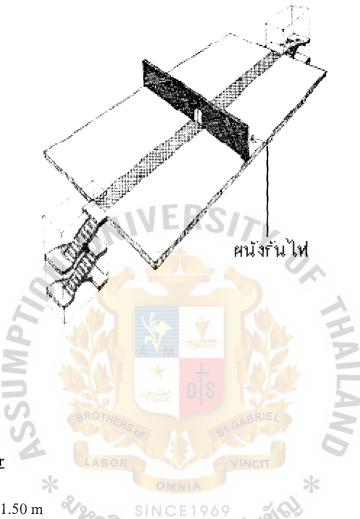


3.5.3 Building code

- Fire exit staircase
- Fire exit door
- Corridor
- Fire retardant material
- The percentage of toilet
- The maximum seating per row in theatre

3.5.3.1 Fire exit staircase

- Inclining not less than 60 degree (Minimum)
- The width of outer fire staircase not less than 80 cm. (Minimum)
- The width of inner fire staircase
 - The walls have to be solid, but to have ventilation and an exit door
 - Lightings have to be enough in daytime and nighttime
- The front of staircase must be no less than 1.50m or the width of the staircase
- The fire exit door has to be fire retardant for not less than 1 hour



3.5.3.2 Fire exit door

Width: not less than 1.50 m

Height: not less than 1.50 m

The width of every door in theatre: will be equal to the ratio of 1 cm. per number of seating of the theatre

Threshold: the levelof theatre will not be lower than the outside, and it will not be taller than 2.50 m.

Above the fire exit door: there must be a sign for the fire exit above the exit door.

3.5.3.3 Corridor

Theatre is the public building type, so the minimum width of the corridor is not less than 1.50 m.

3.5.3.4 Fire retardant material

- Inside wall of theatre: at least 2 hours fire retardant material
- Qualification of every material inside theatre and corridor
 - o Material will not catch fire below the temperature of 750 celsius
- Restaurant: there must be fire retardant material in the kitchen

3.5.3.5 Refractory materials

Refractory materials must be chemically and physically stable at high temperatures.

Depending on the operating environment, they need to be resistant to thermal shock, be chemically inert, and/or have specific ranges of thermal conductivity and of the coefficient of thermal expansion.

3.5.3.6 The percentage of toilet, urinal, wash sink, shower room in Theatre, Auditorium

The unit per 200 sq.m or 100 persons

Theatre,		Toilet	Urinal	Shower	Wash sink
Auditorium				room	
}	(1) Men	1	2	-	1
	(2) Women	3	-	-	1

3.5.3.7 The maximum seating per row in theatre

• In cases where one row of seating is flanked by 2 aisles:

the maximum seating must not be more than 20 seats.

• In case where more than one row of seating is flanked by 2 aisles:

the maximum seating must not be more than 16 seats

• In case where one row of seating is flanked by 1 aisle:

the maximum seating must not be more than 6 seats

4.1 Area Requirement from case study

Function and Area require	ement : Case Study 1, S o	cala		
Function	Units/Clients	Area (m²)	Area (%)	
Main circulation	-	2391.734	27.84	
Reception and Front Office	3-4	348.79	4.06	
Ticket booth	2-3	25.773	0.3	
Theatre	896	1199.30	13.96	27.84 %
Event hall	80	286.080	3.33	40.11 %
Restaurant and bar	50	356.52	4.15	3.61
Toilet	20	92.78	1.08	
Employee area	15	310.135	3.61	3.33
Maintenance area	6	134.01	1.56	1.56%
Retail shop		3439.08	40.11	4.06% 4.15%
Total area		8591	100	

Function and Area requirement: Case	Study 2. Art House RCA	OM	NIA	*
	2/0	SINC	E 1.0 /. 0	40
Function	Units/Clients	Area (m²)	Area (%)	3/3/20
Main circulation	•	502	25	
Reception and Front Office	3-4	304	15.49	Sales
Ticket booth	2	18	0.91	3.95% 7.64% 0.91 5.92%
Theatre	240	504	25.68	
Event hall	30	266	13.55	
Souvenir shop	25	95	4,5	
Restaurant and bar	54	116.2	5.92	
Toilet	8	78	3.95	1.22 %
Staff area	3-4	150	7.64	
Maintenance area	2-3	24	1.22	
Total area		1962.2	100	

4.2 Area requirement comparison chart between the case study and the project estimated area requirement.

Function	Case study Scala (Area in %)	Case Study Art House RCA (Area in %)	Project's average area allowance (Area in %)	Project's average area allowance (Area in sq m.)	Project's area requirement (Area in %)	Project's area requirement (Area in sq m)
Main circulation	27.84	25	26,42	2893	43.227	2577
Reception and Front Office	4.06	15.49	9.75	652	0.41	22.568
Ticket booth	0.3	0.91	0,605	Y	0.75	40.89
Theatre	13.96	25.68	19.82	1704	20.399	1100.554
Event half	3.33	13.55	8.44	552	4.31	232.752
Souvenir shop		4.5	ledi osatt. satatos . :	inversion (all marks)	0.388	20.956
Hall of fame		PRS OF	AL SECTION OF		4.31	232.752
Library		ABOR	VINC	†	16.97	915.889
Restaurant and bar	4.15	5.92 O M	X 5.035	468	4.72	254.7129 sq m
Toilet	1.08	3.95INC	2.515	ໃນທັບ ລະນັກກະນົມນະ. 170	1.75	94.6075
Employee area	3,61	7.64	5.625	460	0.45	24.486
Maintenance area	1,56	1.22	1.39	158	2.45	132.528 sq
Retail shop	40.11		1	# 1)	<u>.</u>
Total	*		tin unwilliant (1.17) 79.6	7101	100	5395.0574

Summary of project area requirement of each area

	Function		Area requirement (sq m
Main circulation		RSZ	2577
Reception and Front Office			22.568
Ticket booth	ลากการการการการการการการการการการการการกา		40.89
Theatre			1100.554
Event half			232.752
Souvenir shop			20.956
Hall of fame	ZgRO74	QZZ	232,752
Library	20	3	915.889
Restaurant and bar	AB		254.7129 sq m
Toilet	V₂ _ SINCI	E1969 %	94.6075
Employee area	7246		24.486
Maintenance area		The state of the s	132.528 sq
Total		***************************************	5395.0574

AREA	FURNITURE &	NO. OF		AREA REQUIREMEN T	TABULATION CHART	Reference
	EQUIPMENT	USER	UNIT	(SQ.M.)		
Reception a	nd Waiting area					
Reception desk	Front desk counter Chair Computer Telephone Fax Cabinet	2	2	7 sq m	journ juster juster)	Time-saver Male strom
	2 person set 2 Lounge chairs 1 side table	2	3	1.98 sq m		http://web.ku.edu
	4 person set 1 sofa & 1 lounge chair 1 coffee table 1 end table 1 planter	4	1	3.2 sq m		http://web.ku.edu
	6 person set 1 sofa & 1 lounge chair 1 coffee table 1 end table 2 pull up chairs 1 planter	6	NIV	5.18 sq m		http://web.ku.edu
					Total Furniture	17.36 sq m
	6			OP A	Circulation 30 %	5.208 sq m
					Total area	22.568 sq m

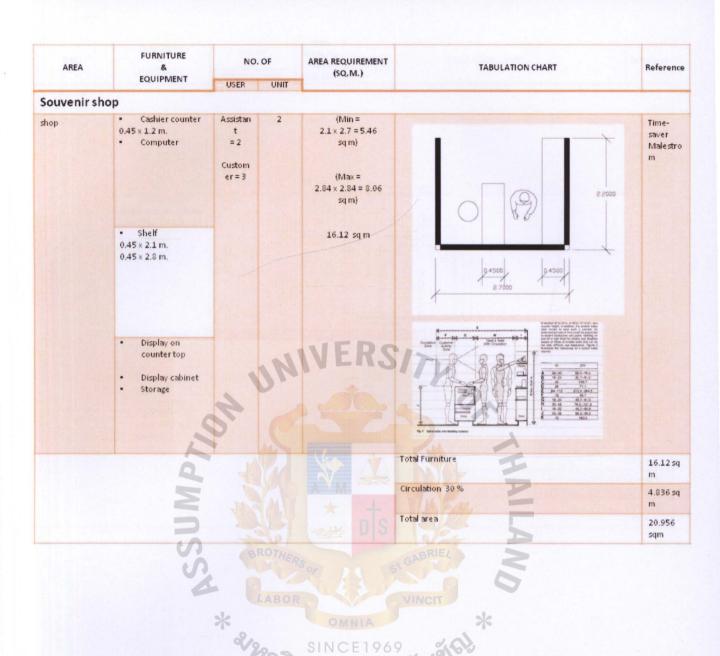
	Management		1	13.2		and the same of the same of
Manager Station 1 Manager	desk Management Chair Credenza or worktable Guest chair Soft seating	1	1	sq m		http://web.ku.edu
Officer Station • 1 assistant	Primary work surface and pedestal Secondary work surface Desk chair Variables sunit extend ed work surface and overhe ad storage	4	J E I	20.88 sq m		http://web.ku.edu
			.00	D. 0	Total Furniture Circulation 20 %	34.08 sq m 6.816 sq m
	0				Total area	40.89 sq m

	FURNITURE	NC). OF	AREA		
AREA	& EQUIPMENT	USER	UNIT	T (SQ.M.)	TABULATION CHART	Reference
Ticket booth)		1			
Ficket booth	 Counter 0.60 × 4.80 m. File cabinet 0.35 x 4.80 m. Chair 0.45 x 0.45 m. Queuing area 3 x 9 m. 	3	2	47.04	Tickel Boom	Survey at Scala site
				PRODUCTION	Total Furniture	47.04 sq m
					Circulation 30 %	4
			NIV	ERS	Total area	14.112 sq m 61.152 sq m
AREA	FURNITURE & EQUIPMENT	USER	O. OF UNIT	AREA REQUIREMEN T (SQ.M.)	TABULATION CHART	Reference
.ightMeal bar						
Light Mealbar	Counter bar 0.70 – 0.96 m. Backbar 0.60 – 0.76 m. Computer cashier stool	* & 29	THERS OF	(Min = 6.93 sq. m / unit Max = 9.33 sq. m / unit) 16.92 sq m	8888 8 And to Tourish and the Contraction of the Co	Time-saver Male strom
	. L		-		Total Furniture	16.92 sq m
<u> </u>	m ;				Circulation 30 %	5.076 sq m
6 (4, 5) 417 6 (4, 5) 417 6 (4, 5) 417 6 (4, 5) 417 7 (4, 5) 417	130 mm (120 mm) (120				Total area	21.996 sq m
No. No.	jen 1 2015 1043 2016 2016 2026 2026 2027					

AREA	FURNITURE &	NC	O. OF	AREA REQUIREME	TABULATION CHART	Referenc
	EQUIPMENT	USER	UNIT	NT (SQ.M.)		
Theatre						
The atre auditorium	 Screen size25 m. (Arch screen) Width 0.50 x 25 = 12.5 sq m 	820	1	12.5	Screen	Intervier Scala site, Survey at Art House RCA
	Chair seating set 0.55 x 0.49 m. Aisle distance between seating 0.50 m.	800	800	242		Thesis Book
	Aisle in the atre Min width = 1.5 × 20 m = 30 sq m	800	6	180		Building code
	Exit door 2.00 m	800	s	10	Fire	
	3			I WILL		
	(C)		BROTA		BRIE	
AREA	FURNITURE &		o. OF	AREA REQUIREME NT	TABULATION CHART	Reference
	EQUIPMENT	USER	UNIT	(SQ.M.)	VINCIT	
Theatre		2			***	
stage	Front stage 15/100 theatre area	10	297	0.15×1199 179.851 0.18176	E 1 0 6 9 Screen	Intervie Scala site
	Back stage 5/100 theatre area	10	1	0.05×1199 = 59.95	97245	
	Powderroom 7.8 x 3.80 m Male Female shower toilet sofa change cloth room	10	2	59.28	500000	Intervie w Box shot studio

	FURNITURE	NO	. OF	AREA		
AREA &	& EQUIPMENT	USER	UNIT	REQUIR EMENT (SQ.M.)	TABULATION CHART	Reference
Theatre						
Control room	Projector Platter Holder Sound control Electrical control machine Storage	5	1	112 sq. m.	TED C	Survey at Scala site
			11	VII	Total Furniture	846.58 sq m
		4			Circulation 30 %	253.974 sq m
		OP			Total area	1100.55 4 sq m

AREA	FURNITURE	NO	. OF	AREA REQUIRE	TABULATION CHART	Reference
AREA & EQUIPMENT		USER			IABULATION CHART	Kererenc
Event hall	9	A		عليد	DIST	
Event hall	Information counter & Register Computer	2 8	ROTHER	3.50 sq m	THE GABRIET S	Time- saver Malestro m
	Display board (Distance from display board min 2.00 m)	9-10	⁴⁰	4 sq m* 20 S N C 160 sq m	2100 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	website
	Resting area bench or armchair 6 person set 1 sofa & 1 lounge chair 1 coffee table 1 end table 2 pull up chairs 1 planter	6	3	15.54 sq m		http://w eb.ku.ed u
					Total Furniture	179.04s q m
					Circulation 30 %	53.712s qm
					Total area	232.752 sq m

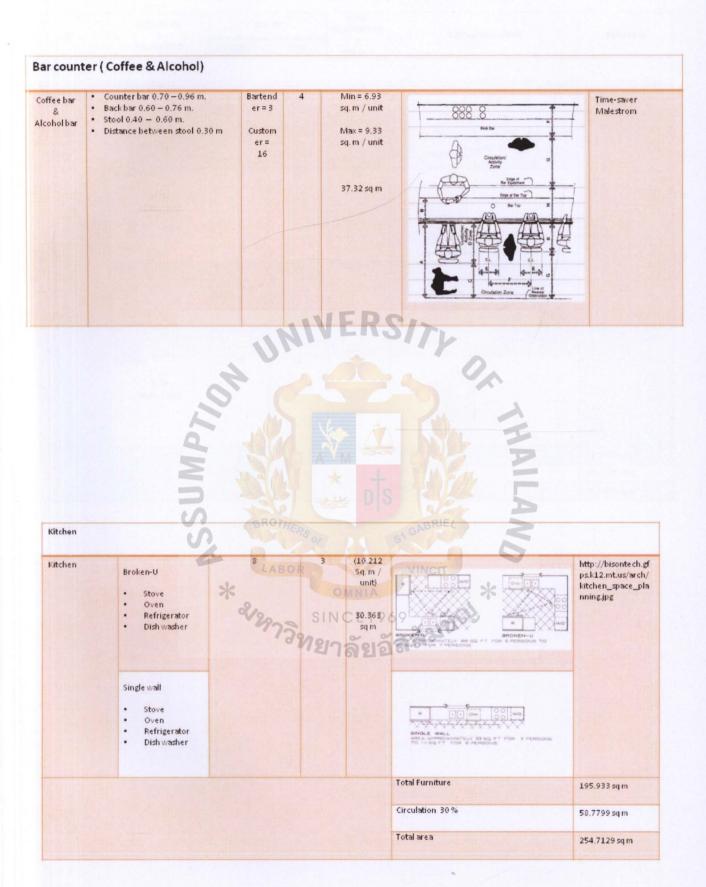


AREA	FURNITURE &	NO	. OF	AREA REQUIRE MENT	TABULATION CHART	Reference
	EQUIPMENT	USER	UNIT	(SQ.M.)		
Hall of fame				1000		
Hall of fame	Information counter & Register Computer	2	1	3.50 sq m		Time- saver Malestro m
	Display board (Distance from display board min 2.00 m.)	9-10	40	4 sq m*20 = 160 sq m	TOTAL OF ANTWORK	website
	Resting area bench or armchair 6 personset 1 sofa & 1 lounge chair 1 coffee table 1 end table 2 pull up chairs 1 planter	6	UN	15.54 sq m		http://w eb.ku.ed u
	6			Va	Total Furniture	179.04 sq m
	5				Circulation 30%	53.712 sq m
					Total area	232.752 sqm

AREA	FURNITURE & EQUIPMENT	NO	. OF	AREA REQUIRE MENT (SQ.M.)	TABULATION CHART	Reference
h	184799	USER	UNIT	(SCEINE)		
brary						
	Information counter & Register Computer Cabinet	2	12	7 sqm		Time- saver Malestr m
	Book shelf (0.60×1.50 m) with clearance = 5.4 sq m	150	60	324 sq m	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Survey at TCDC and Book interior space standard
	BookShelf set with various reading table types Sub clearance = 1.00 m Main clearance for barrow book 1.50 m. (10.30x10.30m = 106.09 sq m)	150	UN	318.27 sqm		Survey at TCDC and Book interior space standard
	MUSSUM	**	LABO	RSON	VINCIT *	

	FURNITURE	NO	. OF	AREA		
AREA	& EQUIPMENT	USER	UNIT	REQUIRE MENT (SQ.M.)	TABULATION CHART	Reference
rary						
	Resting area 6 person set 1 sofa & 1 lounge chair 1 coffee table 1 end table 2 pull up chairs 1 planter	6	3	15.54 sq m		http://w eb.ku.ed u
	MiniTheatre or audio room (R = 2, area = 8.68 sq m)	16	4	34.72 sq m	ERSHAL ELECTRICATION OF THE PROPERTY OF THE PR	Survey at TCDC
	Computer searching corner with clearance (1.00x1.00m = 1 sq m)	5	5	5 sq m		Survey at TCDC
AREA	FURNITURE & EQUIPMENT	N	O. OF UNIT	AREA REQUIRE MENT (SQ.M.)	BIS TABULATION CHART	Referen
orary	2		9			
		*	LABO	ROO	Total Furniture WCH	704.53 sq m
		9	2973	SIN	Circulation 30 %	211.35 sq m
			13	2000	Total area	915.88 sq m

Restaurant	FURNITURE		NO. OF		AREA		
AREA	& EQUIPMENT		USER	UNIT	REQUIREMENT (SQ.M.)	TABULATION CHART	Reference
Dinningtable	Dinning table Rectangular table type 0.6 x 1.2 m. 0.75 x 1.2 m. 0.75 x 1.5 m. 0.9 x 1.8 m. 0.9 x 2.1 m.	20	2 Wheelchair	10	(1.89×10) 18.9 sq m	SOUTH STANKED	http://bisontech gfps.k12.mt.us/a ch/kitchen_spac _planning.jpg
	Dinning table Square table type 0.75 × 0.75 m. 0.9 × 0.9 m. 1.05 × 1.05 m. 1.2 × 1.2 m. 1.35 × 1.35 m. Dinning table Round table	72	2 Wheelchair	12 R3	(3.645×12) 43.74 sq m	SO MAN DESTRUCTION OF MAN DESTRU	
	type 0.75 m. 0.9 m. 1.05 m. 1.2 m. 1.35 m.	198		t nts	65.61 sq m	DOTE HOLAG TABLE WITH PECCETAL BASE PREFERRED SCH WIGELCHAM DECID. 30 TOL WIGELCHAM ACCESS 1 TOL WIGELCHAM ACCESS 2 TOL WIG	
	* PSS	BRO LA	BOR OM SINC	NIA E 190	VINCIT SO A A A A A A A A A A A A A A A A A A	*	



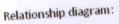
AREA	FURNITURE &	NO	. OF	AREA REQUIREMEN	TABULATION CHART	Reference
100000000000000000000000000000000000000	EQUIPMENT	USER	UNIT	(SQ.M.)	THE CENTER COMM	The state of the s
Restroom						
Restroom	Water closet for handicap 3.08 sq.m. / unit	5	5	15.4	BATTER CLORET COMMUNICATION SICH STATEMENTS	http://bisontech.gfj s.k12.mt.us/arch/re ources.html
	Water closet 0.76 sq.m. / unit	50	50	38	FLINE AND 4	
	Bidet 0.725 sq.m. / unit	15	15	IERS	BIOET	
	0.34 sq.m. / unit	25	25	8.5	W OF FLINE	
			MA		Total Furniture	72.775 sq m
	\leq			A STATE OF THE STA	Circulation 30 %	21.8325 sq m
				N DO	Total area	94.6075 sq m

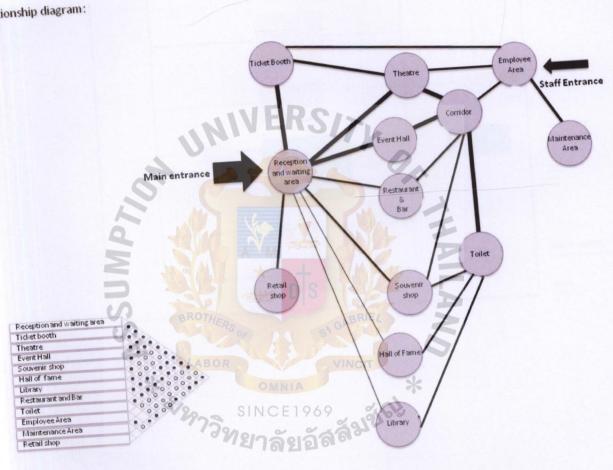
	FURNITURE	NO.	. OF	AREA		
AREA	& EQUIPMENT	USER	UNIT	REQUIREMEN T (SQ.M.)	TABULATION CHART	Reference
Employee area						
Female Employee area	Sofagroup 6 person set 1 sofa & 1 lounge chair 1 coffee table 1 end table 2 pull up chairs 1 planter	12	2	10.36 sq m		http://web.ku.edu
	Bench 1.30×0.45 = 0.585 sq m / unit	4	4	1.17 sq m		http://www.archiexp o.com/prod/fit- interiors/benches- for-locker-rooms- 58086-146631.html
	0.45×0.5 = 0.225 .sq m / unit	20	20	4.5 sq m	10 1 100 100 100 100 100 100 100 100 10	The state of the s
	SSUMP	* 2/29.	BOR	M D S	GABRIE! *	

AREA	FURNITURE &	E NC	. OF	AREA REQUIREMEN	TABULATION CHART	Reference
	EQUIPMENT	USER	UNIT	T (SQ.M.)		
Employee a	rea					
Female Employee area	Water closet 0.76 sq.m. / unit	2	2	0.76 sq m	PLINE POLY	http://web.ku.edu
	Lavatory 0.34 sq.m. / unit	4	4	0.68 sq m	W. OF LINE LAVATORY	
	Shower 1.30×0.85 = 1.105 sqm / unit	2	NIV	ERS	WORFLINE BHOWER	
	0.725 sq.m. / unit			0,725 sq m	C D C D C D C D C D C D C D C D C D C D	
	Q.	THE PERSON	MILES		Total Furniture	20.405 sq m
	5				Circulation 20 %	4.081 sq m
					Total area	24.486 sq m

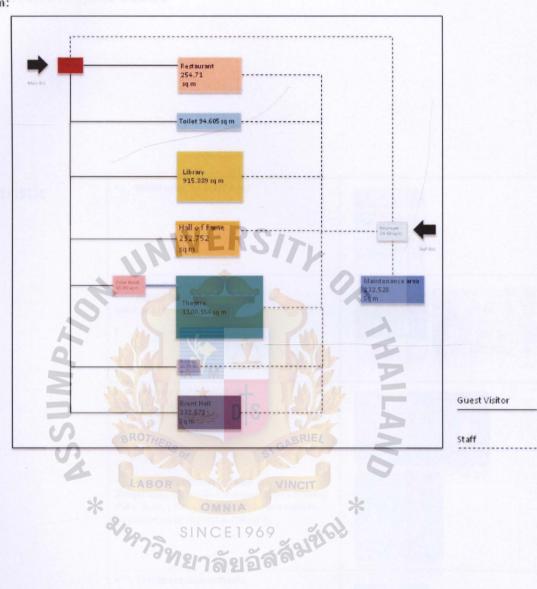
## FOUR PMENT USER UNIT (SQ.M.) ## Aliantenance area Desk Officer Station S.22 sq m / unit Sq. m. Image: Aliantenance Sq. m. Image: Aliantena	Reference		REQUIREMEN		NO.	FURNITURE &	AREA
Desk Officer Station				UNIT	USER		ANEA
Officer Station 5.22 sq m / unit • Air control room 8x7 m = 56 sq m • Electrical generate room 4x6 = 24 sq m • Coil room 4x5 = 20 sq m						nce area	1aintenar
* Electrical generate room 4x6 = 24 sq m * Coilroom 4x5 = 20 sq m	http://web.ku.edu			2	2	Officer Station	
• Coilroom 4x5 = 20 sq m	Survey at Scala sit	Air Control Room	56 sq m	1	5		
4×5 = 20 sq m			24 sq m	MIN	5	room	
		หองคอยสเซ็าน	20 sq m		5		
Total Furniture 110.44s	110.44 sq m	otal Furniture	M To				
Circulation 20 % 22.088 s	22.088 sq m	irculation 20 %	- a				
Total area 132.528	132.528 sq m	otal area	DIST				

4.3 Bubble Diagram





Functional diagram:



4.4 Conceptual development

Free Expression of Popular Culture

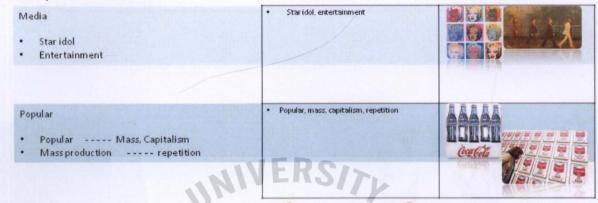
Pop Art Characteristic



Psychedelic Art Media of Popular Culture

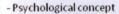
- Physical concept
- Psychological concept

- Physical concept



Psychedelic Art Media of Popular Culture

- Physical concept
- Psychological concept



Popular culture

• Freedom ----no control, no limit, float



Popular culture

Movement - - - - Expression



Popular culture

• Emotion ---- Human Feeling, Expression





Collage



Extrude

Chapter 5 : Design Solution

5.1 Conceptual Design

Concept: Freedom Expression of Popular Culture



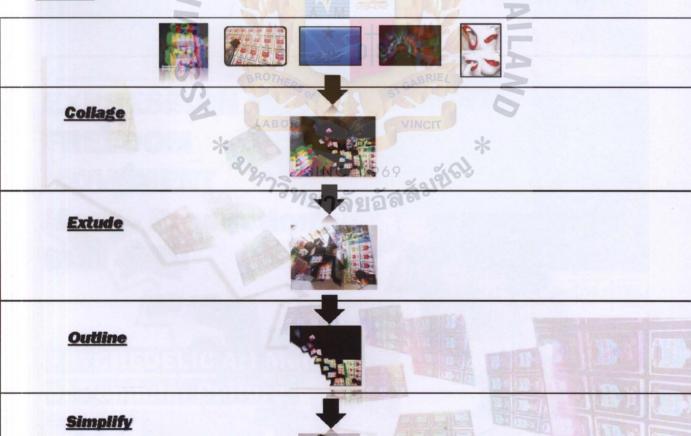




- Expression
- Freedom
- Mass Production
- Culture Movement
- Star Idol







- Diagram



FREEDOM *
MOVEMENT

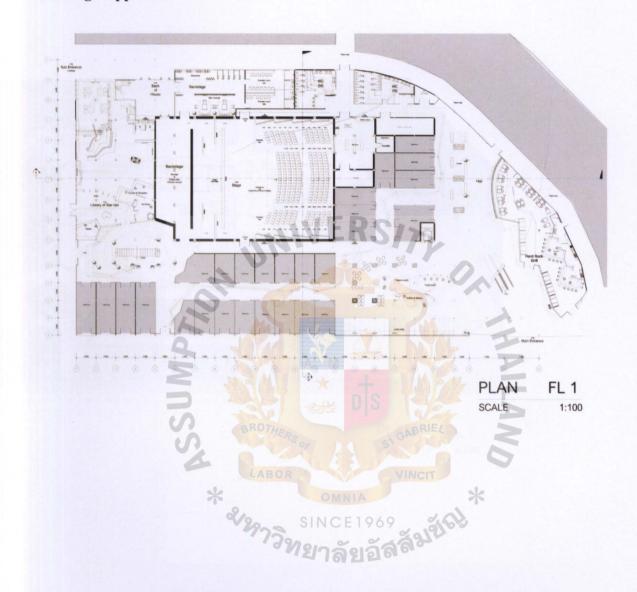
Mass - Production
Star Relian

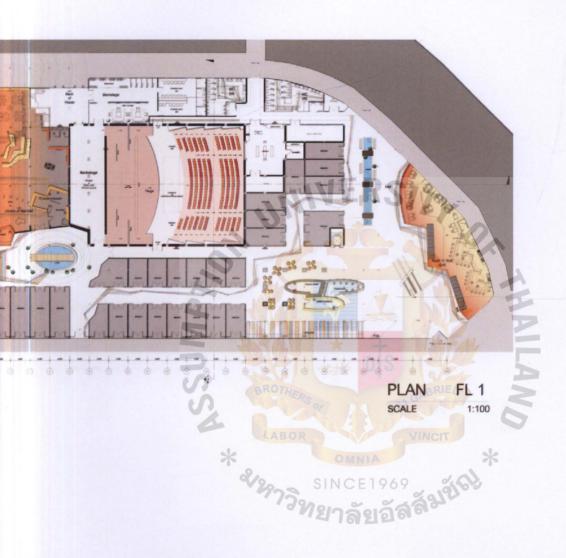
PSYCHEDELIC Art Median

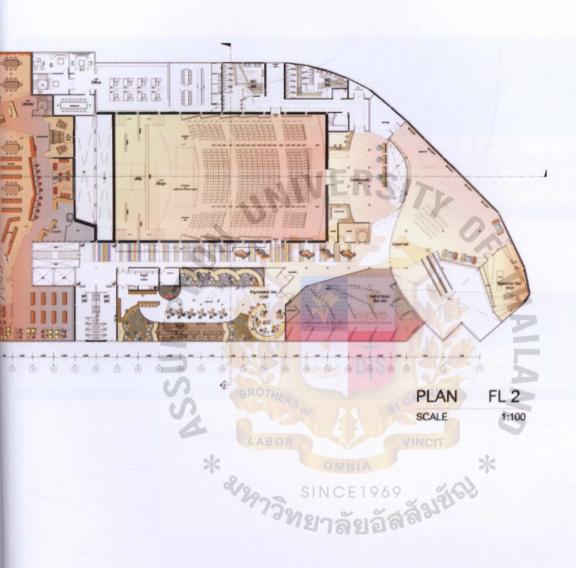
of Poppular Culture

DITTECENT Perception

5.2 Design Approach





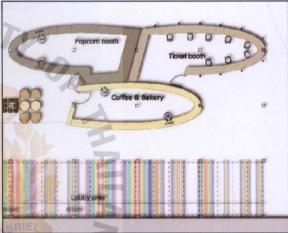




5.3 Design Development

5.3.1 RECEPTION, LOBBY AREA







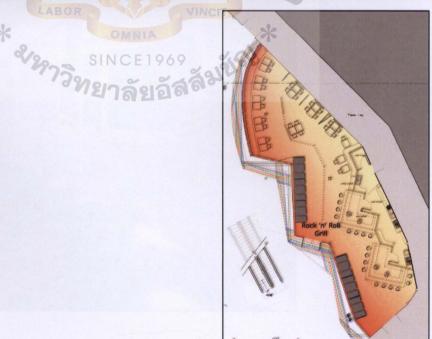
5.3.2 COFFEE & BAKERY



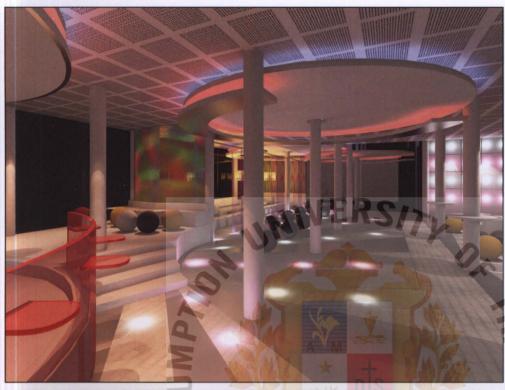


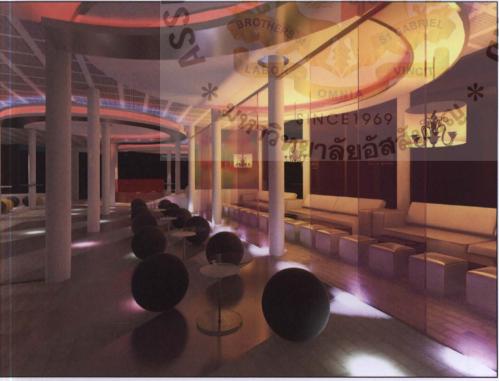
5.3.3 RETAURANT (Rock 'n' Roll Grill)





5.3.4 BAR (PSYCHEDELIC BAR)





5.3.5 LIBRARY (LIBRARY OF STAR IDOL)



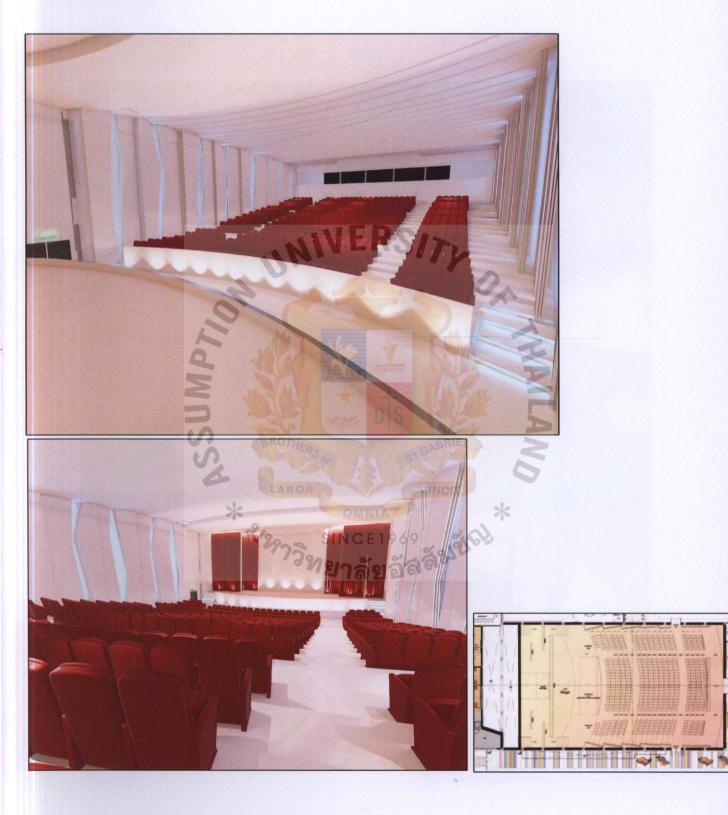
SINCE 1969
SINCE 1969
SINCE 1969

5.3.6 CONCESSION (LOBBY INSIDE THEATRE)





5.3.7 THEATRE



5.3.8 RETAIL SHOP



SINCE 1969
Paragaaa

