Livability Level As A Guideline Of Arrangement Of Suprapto Road City Walk Corridor In Bengkulu City

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Abstract

Livable road corridors are corridors designed to accommodate the needs of all road users (motorists, cyclists and pedestrians). Livable Street provides a balance of activity between vehicles using the road corridor and the different communities there. At this time, Suprapto Road is a road corridor with a function as a commercial area. The government’s program to develop Suprapto Road in the future is by transforming it into a City Walk of Bengkulu City, this idea was stated by the Head of the Public Works and Housing Office of PUPR in Bengkulu, Mr. Rozy Ismawardi. The City Walk concept is not new, several places around the world have presented the City Walk concept in the corner of the city space, such as Clark Quay, Far East Square, and Orchard Road in Singapore. Through the City Walk concept, the local government can turn a dead old city into an active area. Related with the Bengkulu City government program above, a study is needed to get an idea of the level of livability if the city road in Bengkulu is used as a City Walk. Thus, it will objectively the factors that influence it while providing appropriate structuring guidelines for the City Walk that is Livable in Suprapto Street corridor. This study uses qualitative rationalistic methods through the perception of individuals in an effort to see, understand, and realize how the level of livability if a road functioned as a City Walk. This research begins with an observation activity on the condition of Suprapto Street in Bengkulu, complemented with the theory of livability and City Walk. Standard provisions and criteria are used to see what factors influence the level of livability in the road corridor. The research results will be the basis for determining the City Walk structuring arrangement for the Suprapto Street corridor.

Keywords: Livability, City Walk, Street's Space

Introduction

The starting point for the development of Bengkulu city is becoming a more developed and known area. The arrival of the British made Bengkulu even more crowded, especially after the construction of Fort Marlborough which was not far from the coast of Tapak Paderi. The British governed the placement of urban space based on their economic bases, namely shipping and trade. Bengkulu city center at that time was around Fort Malborough which was 500 meters from the shore of Bengkulu bay. Since the arrival of the British to Bengkulu, large roads have been built to facilitate transportation. Gradually Bengkulu was also filled with immigrants from China, Bugis, Java, Madura, Malay, and others. One of the characteristics of an increasingly advanced region is the commencement of heterogeneity (plurality) of its population. The development of Bengkulu City is inseparable from the role of Chinese villages (Chinatown). Chinese villages are the economic wheel of Bengkulu city. Chinese villages were increasingly abandoned in the 2000s, the swallow’s nest business became more widespread. One of the streets that became the center of trade was the intersection of five at the end of Suprapto Road, which was once just a city boundary.
where travelers stopped for resting. After that the area that appeared was only a jungle.

Figure 1. Map of Bengkulu City in 1960
Source: Marlborough Fortress Historical Document

The development of the city was directed to the east and west ring roads which were built by the governor of Suprapto 3 (1979-1989 term). The two ring roads became the centers of the new economy. The entrepreneurs also transferred their business to that location. One of the regions developed by the Bengkulu government at that time was Suprapto Street. The name given for this road is pinned to commemorate the 3rd governor of Bengkulu, namely Lieutenant Suprapto.

Figure 2. Suprapto Road located next to Jamik Mosque at the time before it was used as a trade and service area.
Source: Google

The physical side of this road has been built with a wide road that can support trading activities, in the 2000s this road was improved in terms of the addition of sidewalks and road medians.

Suprapto Street which functions as a trade and service area can be found in the Bengkulu City Spatial Plan (Bengkulu City RTRW 2012-2032) which states that along the Suprapto Road is intended for the informal sector. As well as trade and service centers are in the district of Ratu Samban consisting of Bengkulu Indah Mall (BIM), Mega Mall (MM), Modern Traditional Market (PTM), Suprapto Street, Pasar Minggu. Article 30 of the Bengkulu City Spatial Plan for 2012-2032 states that the infrastructure for the pedestrian road network and facilities, one of which is Suprapto Street.

On this road there are arcades and sidewalks as pedestrian paths for the people of Bengkulu to walk in this area. this street has parking on street along the road. But at that time Bengkulu people still often used public transportation to travel to Suprapto Street. Therefore, the vehicle parking lot was used by street vendors to sell their products. Activities in the walking path are still very comfortable and safe to pass by visitors.

Figure 3. Pedestrian Path on Suprapto Street
Source: Personal Documents

As the city of Bengkulu developed in 2009 the Bengkulu government established a new modern shopping center, Mega Mall and Bengkulu Indah Mall. This is enough to affect the Suprapto area because many residents find it more attractive to shop at the new shopping center that provides more comfortable needs and places of escape. in addition, Suprapto Road experienced a decrease in activity due to the considerable increase in traffic flow experienced by Bengkulu Province, due to the increasing number of motor vehicle growths of ± 15.04% per year (Anzy and Legowo, 2016). Decreased activity in this road space which causes street vendors who used to sell at vehicle parking locations can no longer do so. The curbing carried out by the Bengkulu city government resulted in the removal of street vendors. In response to this in 2015 the Bengkulu government revitalized the sidewalks and drainage canals on this road aimed at
providing comfort for pedestrians and street vendors. However, these efforts have not yet to produce these results as seen from the still low usage of the sidewalk.

Figure 4. The condition of activities on the sidewalks of Suprapto Street after being revitalized by the Bengkulu city government still looks empty of users.
Source: Personal Documents

Not only that the Bengkulu government also created the Smart City Park on Suprapto Street which is located close to the Landmark of Bengkulu City.

Figure 5. Smart City Park located on Suprapto Road and close to Queen Samban Monument.
Source: Personal Documents

It aims to attract millennials generation to do activities there. The consideration is based on the data from BPS which states that Bengkulu residents are the most vulnerable from the age group of 20-24 years. This is also unlike the expectations of the city government as reported by one of the print media in the city of Bengkulu that the park is now empty of visitors and there is already a lot of wild grass. The Bengkulu government's efforts to improve the physical space of Suprapto Street in order to attract the attention of the Bengkulu Society to carry out activities there was considered unsuccessful, this was revealed by one of the Deputy Chairperson of the Bengkulu City DPRD Commission III, Rena Anggraini. Rena also said that the revitalization of the sidewalk seemed futile because there were still many violations carried out by street vendors and people who parked vehicles on the sidewalk. Based on the results of the initial interview conducted with Mr. Rozi Ismawardi as Head of Highways in Bengkulu PUPR Bengkulu City stated that “Suprapto Street will be used as City Walk of Bengkulu City for future development” (2019)

Theory

Livability

Livable Street

Jacobs (1995: 152) argues that urban roads are said to be successful when people come to appear at different times to times. Meanwhile, the total number of people who use the road at a time and how people spread and use their time (at different times) all day, are two different things (Jacob, 1995 : 154). On the other hand, Mou-don (1987: 29) states that a lively and successful road requires a balanced mixing between different user groups (different user groups) and different activities (different activities). According to Appleyard (1981) livable street is a road environment that is designed to accommodate the needs of each user. Including drivers, public vehicles, bicycles, and pedestrians both with disabilities, elderly, and children. The number of travel routes is usually kept to a minimum for safety crossing.

Livability and Public Social Life

The attraction of city livability lies in anticipating stimulating experiences in the public realm that contributes to positive mental, emotional and physical health. Therefore, city livability is affected by opportunities that enable meaningful social exchange that helps to build a sense of belonging and community pride as residents of the place. Social welfare and psychological health depend on the community (Oldenberg, 1989 in Choudhury, 2008)
Table 1. Livability of public social life
Source: Litman, Todd Alexander, ‘Economic Value of Walkability’, Transportation research record 1828_3, Paper No. 03-2731 in Choudhury, 2008.

| No | Quality | Description |
|----|---------|-------------|
| 1  | Safety and Health | Traffic safety, personal security and public health |
| 2  | Quality of the local environment | Cleanliness, Noise, Water Quality, Air Quality |
| 3  | Relationship between 1 neighboring community | Respect for each other, community identity |
| 4  | Opportunities for recreation and entertainment | - |
| 5  | Aesthetics | - |
| 6  | The existence of a cultural historical structure | Aged trees, traditional architectural style, environmental resources. |

City Walk Elements

From the understanding of the City walk concept above, conclusions can be drawn regarding the main elements that form the City walk, including Street Space, pedestrian, and retails (buildings).

The building on the city walk concept is one of the elements forming a city walk in a modern shopping center. Because of its function as a commercial place, the building must exist to fulfill the commercial function of this modern shopping center. (Booth, Norman, K, 1983).

In the Portland Pedestrian Design Guide (1998; A-5), the pedestrian zone is divided into 4 zones, namely Curb Zone, Furnishings Zone, Through Pedestrian Zone, and Frontage Zone.

Theory Dialogue

In determining the level of livability in the road space that will be functioned as a City Walk, the theory above in this study requires a theoretical dialogue between livability theory and City Walk theory. From the theories above, the relationship between livability and City Walk can be drawn as follows:

Method

Research Approach

This qualitative research method consists of
rationalistic and positivistic while quantitative research method consists of phenomena and rationalistic, the process of analysis can be deductive or inductive. The deductive process departs from things that are general in nature, then conclusions are made of a specific nature, while the inductive analysis process departs from things that are specific, to then be made conclusions that are general (Muhadjir, 1998).

This study uses a qualitative rationalistic method which is a method that focuses on rationalism, namely the perception of individuals in seeing, understanding and realizing how the influence of physical settings on activities in arranging the Livable City Walk Bengkulu in the corridor of Suprapto street. This research begins with field observations or direct observations of the existing Suprapto road corridor conditions based on Parameters, Variables, Sub-Variables, and indicators in the literature review. The standards and criteria are used to see what factors can be utilized for Livable City Walk of Suprapto street. While the process of analysis in this study uses deductive where the results of the research in the research matrix are linked to draw conclusions.

The instrument is a tool used to answer research questions. The research instruments are Variable, Indicators, Parameters and Matrices. Variables are concepts based on textual references/theories. Indicators are things that are part of the parameters based on the reference/theory. Parameter is measured values, based on references. The determination process is as follows: (Table 2 and Table 3).

| No | Variable | Indicator | Parameter | Aspect |
|----|----------|-----------|-----------|--------|
| 1  | Function | Function of Building and public open space | a. Types and functions of buildings | Physical |
|    |          |           | b. Type and Number of RTP functions | Physical |
| 2  | Activity | Social Activities (non-movement) | a. Types of Activities and composition of types of road users based on non-movement activities | Non physical |
|    |          |           | b. Location, Time, Frequency of non-movement activities | Non physical |
| 3  | Accessibility | Accessibility | a. The range and spatial conditions of circulation | Physical |
|    |          |           | b. Types and composition of road users by mode | Non physical |
|    |          |           | c. Types and range of services for parking activities | Non physical |
|    |          |           | d. Location, Time, Frequency of movement activity | Non physical |
| 4  | Security | Traffic Conflict | a. Types and amounts of traffic conflicts | Non physical |
|    |          |           | b. Location and Time of the traffic conflict | Non physical |
| 5  | Environmental quality | RTH quality | a. Green Open Conditions | Physical |
|    |          |           | b. RTH utilization activities | Non physical |
Table 3. City Walk Criteria Are Livable

| Aspect        | Component | Indicator                                                                 |
|---------------|-----------|---------------------------------------------------------------------------|
| Function      | Building  | The diversity of building functions that support the Vitality of the Area  |
|               | Open Space| The quality of open space that has facilities to support social interaction |
| Activity      | Building  | Has a large capacity and free parking lot in front of the building        |
|               | Pedestrian Path | Availability of street furniture, signage as a clear marker, and available pedestrian paths |
| Accessibility | Pedestrian | Quality Connectors and Street Furniture                                   |
| Safety        | Building  | Setback                                                                    |
|               | Pedestrian Path | Traffic conflict                                                          |
| Environmental Quality | Building | Greening                                                                    |
|               | Open Space | Vegetation                                                                  |

Table 4. Determination of Livability Level Based on Livability Theory for evaluating the results of observations and questionnaires

| Function        | Building Functions | High Livability Level | Moderate Livability | Low Livability level |
|-----------------|--------------------|-----------------------|---------------------|----------------------|
|                 |                    | There are Commercial, Residential and Public facilities Functions along the built road | There are commercial and residential functions with limited land on most of the developed land | There is a Commercial / residential / Public facilities function with a narrow and single land |
| Open Space Function |                   | High Livability Level | Functioned as an entertainment stage and building mass liaison. | Moderate Livability Functioned as an entertainment stage or building mass liaison |
|                 |                    | Low livability level | Not functioning and not maintained |

| Activity       | Activity time | Road users | High Livability Level | Moderate Livability | Low livability level |
|----------------|--------------|-------------|-----------------------|---------------------|----------------------|
| Accessibility  |              |             | There are 3 different activity times namely Morning, Afternoon, Night with busy intensity | There are 3 different activity times: morning, afternoon, evening with moderate intensity | There are 3 different activity times: morning, afternoon, evening with a little intensity |
| Traffic Conflict | Activity time |             | High Livability Level | Moderate Livability | Low livability level |
|                 |              |             | There are 3 categories of road users, namely Passerby, Visitor, and Resident | There are only 2 Road Users | There are 1 category of road users only |

| Accessibility | Road users | High Livability Level | Facilitated by a pedestrian path complete with street furniture and has an extensive setback | Moderate Livability | It is facilitated by the pedestrian path and has a setback that is not proportioned |
|---------------|------------|-----------------------|-----------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------|
|               |            | Low livability level | There is no pedestrian path and no setback.                                                   |

| Safety         | RTH quality | High Livability Level | There is no traffic conflict                                                                 |
|----------------|-------------|-----------------------|------------------------------------------------------------------------------------------------|
| Activity time  |             | Moderate Livability | There are traffic conflicts at several points and do not disturb road users                   |
| Road users     |             | Low livability level | Traffic conflicts occur and disrupt road users                                                |

| Environmental Quality | Accessibility | High Livability Level | Moderate Livability | Low livability level |
|-----------------------|---------------|-----------------------|---------------------|----------------------|
|                       |               | Maintained, has street furniture and vegetation | Maintained, lacking street furniture and vegetation | Not maintained and there is no street furniture and vegetation |
Armed with related theories and respondent information and area conditions related to predetermined livability variables, all of them are related to find findings of factors that influence Livable City Walk on Suprapto street, Bengkulu.

The findings of the Livable City Walk influence factor are discussed to see facts in the field and the findings of research on existing theories. The results are expected to strengthen the livable City Walk research findings in the Suprapto Bengkulu corridor. Findings Factors affecting livable City Walks, existing regional problems (from the results of livability conditions analysis) are low as priority design recommendations.

Analysis and Discussion

Suprapto Street Criteria as City walk

In analyzing the Suprapto Road if functioned as a City Walk using the City Walk criteria table that has been explained in chapter 2 above. The criteria that must be met in applying the City Walk concept:
1. The street to the amusement and mass unification of buildings at the intersection
2. Have a Pedestrian Trail along the Corridor
3. Building Pattern

From the 3 criteria above, an analysis can be carried out on Suprapto Street, following analysis by the researcher:
1. The Function of Road Spaces for Entertainment Stage and Mass Integration of Buildings at Intersections.
   Based on the results of field surveys and field observations that Suprapto Street has open space at 3 points, namely at the intersection of K.H Abidin street and in front of the Telkom Office. The first open space at the intersection of K.H Abidin street in the form of green open space that looks not well ordered and not functioned properly. As for the open space in front of the Telkom office in the form of a smart city park that was built by the city government as a public open space that is well organized in order to accommodate social activities.
2. Have Pedestrian Trails Along the Corridor
   Based on the results of surveys and field observations that Suprapto street has a pedestrian path, but there are some parts that are still cut off. Some parts along Suprapto street pedestrian path are also heavily functioned by the sidewalk seller and shopkeepers to put their wares. This makes the pedestrian lane experience the transfer carried out by street vendors and shop owners, making it inconvenience for the pedestrian lane users on Suprapto street.

3. Building Pattern
   Based on the results of surveys and field measurements, the building pattern is oriented towards facing the road and has...
a linear building pattern, following the orientation of the building and the linear building pattern that exists on Suprapto Street.

![Figure 9. Condition of building orientation on Suprapto Street](source: Researcher Analysis 2019)

Based on the observations above, Suprapto street already has 2 City Walk elements that have been fulfilled, namely the Pedestrian Path and Building, while the criteria for the Open Space Function have not been fulfilled because open space is not maintained and is not functioning as an entertainment stage and building mass connector. To fulfill this matter, an open space arrangement is required with criteria as a stage for connecting the building mass.

### Livability Conditions of Suprapto Road Based on Observation

Table 5. Observation Results and Findings on the Suprapto Road Livability Conditions

| Variable            | Sub-Variables                  | Livability Value | Weight |
|---------------------|--------------------------------|------------------|--------|
| Function            | Building Function              | ●                | ●      | ●      |
|                     | Existence of Public Open Space | ○                | ○      | ●      |
| Activity            | Activity time                  | ●                | ○      | ○      |
|                     | Generator                      | ○                | ○      | ●      |
| Accessibility       | Road users                     | ○                | ○      | ●      |
| Safety              | Accessibility                  | ○                | ○      | ●      |
| Environmental quality | Traffic Conflict              | ○                | ○      | ●      |
|                     | Quality of green open spaces   | ○                | ○      | ●      |

Livability Conditions:
- **High**: Building Function
- **Medium**: Activity time, Generator, Road users, Accessibility, Environmental quality, Traffic Conflict
- **Low**: Existence of Public Open Space, Activity, Generator, Accessibility, Traffic Conflict, Quality of green open spaces

Based on these results, the livability conditions for Suprapto Road are included in the medium category.
Roadblock 1 and roadblock 3 have a fairly good level of livability compared to roadblock 2, this shows that roadblock 1 has a livability condition in terms of function and activity and accessibility and safety for environmental quality is still low, for environmental service road 3 has moderate livability conditions on functions and activities and environmental quality is low for accessibility and safety, and for section 2 Road has low livability conditions on accessibility and environmental quality while for functions and activities the level of livability is moderate.

**Livability Conditions Based on Questionnaire**

(Table 6)

This high livability shows that the diversity of building functions on Surpapto street makes various activities carried out by Road users to do activities on Suprapto Street. The highest activity carried out is looking for daily needs. Besides that, the level of passing the Suprapto Road to reach the destination in the Suprapto area and the destination outside the Surpapto Road is still quite high. Accessibility and safety have low value. Based on the results of the questionnaire above, the modes of transportation used by respondents in achieving their objectives in the Surpapto area are quite diverse. This shows that access in reaching the Suprapto area from outside the area is quite easy. However, access in the area is still not good, it is shown that there are still some traffic conflicts and the lack of a special path for cyclists, pedicabs and pedestrians in the area, which makes the level of livability in the area still low. Environmental quality has a low value. Based on the results of the questionnaire above, the shade, noise, and odor on Suprapto street still has an unfavorable value.

Table 6. Results of Questionnaires and Interviews

| Variable         | Questions                                                                 | Assessment weighting of answers | Level Livability |
|------------------|---------------------------------------------------------------------------|----------------------------------|-----------------|
| Function         | 1. Where do you often visit Suprapto Street?                               | A 20  B 27  C 0  D 96          | High            |
|                  | 2. Why did you choose to do activities on Suprapto Street?                 | A 79  B 13  C 32  D 26          | Low             |
|                  | 3. How often do you pass Suprapto Street?                                 | A 61  B 25  C 40  D 24          | Low             |
| Activity         | 4. What vehicle do you use most often to do your activities on Suprapto Street? (can choose more than 1 answer) | A 6  B 15  C 102  D 62         | Medium          |
|                  | 5. Currently there are only lanes for motorized vehicles. Do you need special lanes for bicycles, pedicabs and pedestrians? | A 94  B 43  C 10  D 3           | Low             |
|                  | 6. Are parking spaces on Suprapto Street sufficient?                      | A 44  B 57  C 48  D 1           | Low             |
|                  | 7. What do you think of the current parking lot?                          | A 18  B 62  C 70  D 0           | Medium          |
|                  | 8. Does a parking lot need to be made a special place?                    | A 85  B 44  C 17  D 4           | Low             |
| Accessibility    | 9. Do you think the signs, street signs, information boards in the Suprapto Street environment are clear and help you get to the destination? | A 20  B 56  C 69  D 5           | Medium          |
| Vehicle          | 10. What traffic conflicts on Suprapto Street bother you?                 | A 60  B 48  C 19  D 22          | Low             |
| Environmental quality | 11. Is Suprapto Street already shady?                                     | A 68  B 62  C 20  D 0           | Low             |
|                  | 12. Do you feel noisy when on Suprapto Street?                            | A 14  B 94  C 28  D 14          | Low             |
|                  | 13. Do you smell bad when on Suprapto Street?                             | A 13  B 66  C 36  D 35          | Low             |

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Factors That Influence the Livability of Suprapto Road

Table 7. Discussion of Physical and Non-Physical Aspects

| ROADBLOCK 1 | ROADBLOCK 2 |
|-------------|-------------|
| BUILDING    | The diversity of building functions on this section is quite diverse, with a medium height of 2-4 floors, and has a modern building style. |
| SETBACK     | In this section of the road the building setback is good with a broad setback dimension and regular harmony |
| SIGNAGE     | Signage on the road section is quite clear as the identity of each building, but there are still some signage that intervene in the building facade |
| STREET FURNITURE | In this section of the street there is a complete street furniture on the east side of Smart City Park. But there is no street furniture on the west side of the road. |
| VEGETATION  | On this section of the road there are diverse vegetation, namely hibiscus trees, pine trees, and bonsai. This vegetation serves as a guide and barrier so it is quite comfortable for activities in the Smart City Park. |
| PEDESTRIAN PATH | The pedestrian path on this section is good because it is available along the road in a flat and well-maintained condition |
| STREET VENDORS | On this section of the road there are 13 street vendors who sell using sidewalks so that it disturbs pedestrians. |
| PARKING     | At this section of the road there is still less parking space due to the small dimensions of the parking lot and the slight intensity. |
| PEDESTRIAN  | In this section of the road, pedestrians are still low because there is still little pedestrian intensity |
| TRANSPORTATION USER | In this section, vehicle users are quite diverse and dominated by motorized vehicles |

From the results above the factors that influence the high intensity of activities in the Suprapto Road corridor are buildings, setbacks, signage, and vegetation. While the physical aspects that need to be improved to improve livability are pedestrian paths, street furniture and vegetation.

Findings and Discussion

Based on the observations above, Suprapto street already has 1 City Walk criteria that are met, namely Buildings, while the Open Space and Pedestrian criteria have not been fulfilled because open space is not maintained and does not function as an entertainment stage and the
connecting mass of buildings, meanwhile the pedestrian path are not yet available. To fulfill this matter, an open space arrangement with criteria as entertainment stage and building mass connector is needed. (Table 8)

Table 9. Livability Conditions of Suprapto Road

| Aspect          | Livability level | Information                                                                 |
|-----------------|-----------------|-----------------------------------------------------------------------------|
| Function        | intermediate     | Vitality The diversity of building functions in the area                     |
| Activity        | intermediate     | Has a clear signage, and pedestrian paths are available, 1 open space already has Street Furniture. |
| Accessibility   | Low              | Pedestrian path is still disjointed and do not have street furniture         |
| Safety          | Low              | Misuse of land by street vendors and vehicle parking                         |
| Environmental   | Low              | Vegetation is still lacking                                                  |

Based on the findings above, it is found that the condition of suprapto road livability is still low because of the 5 aspects there are only 2 aspects that already have a moderate level of livability in Suprapto Street. Functions and Activities, due to the diversity of building functions, having clear signage, and available routes. While the other 3 aspects are still low.

Dialogue on Findings with Theories

(Table 10)

Based on the table above it is known that, the aspect of function with the most important building component in Livable City Walk, for the aspect of activity with the pedestrian path component is quite important but there is still a shortage, namely the unavailability of street furniture, and for the safety aspect with building components play an important role because they have a wide setback. Whereas aspects and components that are still lacking a role will be a prioritize in recommending directions for Livable City Walk structuring.

Table 8. Findings and Discussion

| Variable        | Existing | Questionnaires | Discussion |
|-----------------|----------|----------------|------------|
| Function        | ●        | ●              | The function of the building on Suprapto street has a high level of livability based on the results of observations and questionnaires that show the diversity of building functions and is strengthened by the intensity of respondents’ visits that are quite diverse. |
| Activity        | ●        | ●              | For activities there is a difference between existing and questionnaires because based on observations in the field the activity conditions on Suprapto street have a moderate level of livability seen from the intensity of activities that occur in the afternoon to night at some points, whereas based on the questionnaire the activity conditions on Suprapto Road are low seen from the answers respondents who did not often pass the street and the activities that were most carried out by respondents were regular walking. This causes differences in the results of the level of livability so that the final result of activity on Suprapto street is moderate because it is judged from the significant activities carried out by road users with diverse time and diverse activities as well. |
| Accessibility   | ●        | ●              | As for accessibility, it is still low due to the lack of vehicle parking capacity and there is also no special lane for cyclists (non-motorized vehicles) along Suprapto Road. |
| Safety          | ●        | ●              | it is still low because there are still traffic conflicts within the area on the pedestrian lane that have been functioned by shop owners and street vendors so that they interfere with the safety of foot deterioration. |
| Environmental   | ●        | ●              | For the quality of the environment is still low because of the lack of vegetation along the pedestrian pathway which causes less shade and there is still garbage on the edge of the pedestrian pathway causing unpleasant odors. |
Table 10. Dialogue on Theories of Livable City Walk Components

| Aspect      | Component | Indicator                                                                 | Existing                                                                 | Questionnaire                                      |
|-------------|-----------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------|
| Function    | Building  | Diversity of building functions                                           | Commercial buildings, mixed use, and public facilities                    | Shops, places to eat, and public facilities        |
|             | Open Space| The connector of the building masses and the entertainment stage          | 2 open space that is not maintained and 1 open space that is maintained  | Less open space along the road                    |
| Activity    | Building  | Has a large capacity and free parking lot in front of the building        | Has a narrow parking and a little capacity. There are street vendors who sell in front of the building | Parking is adequate with a little capacity but requires a special parking space for lots of capacity |
|             | Pedestrian Path | availability of street furniture, signage as a clear marker, and available pedestrian paths | It has clear signs, street signs, information boards. Still lacking street furniture along the road such as seating and trash |                                                |
|             | Open Space | Street Furniture availability                                              | There is no street furniture along the road like a place to sit to rest. Has clear signage, and pedestrian paths are available | Still lacking Street Furniture                     |
| Accessibility | Pedestrian Path | Quality Connectors and Street Furniture                                  | 2 open spaces don’t have street furniture and 1 open space already has street furniture | Special lanes are needed for cyclists, pedicabs and pedestrians |
| Safety      | Building  | Extensive setback                                                         | Pedestrian path is still disjointed and do not have street furniture      | There is no shade vegetation along the pedestrian path |
|             | Pedestrian Path | Have safeguards along the pedestrian path and there is no misuse of the pedestrian path | Has a broad setback                                                      | Extensive setback                                  |
| Environmental quality | Building | Has a green line                                                          | Misuse of land by street vendors and vehicle parking                      | Misuse of land by street vendors and vehicle parking |
| Aspect      | Open Space | Has shade and shade vegetation                                             | Still lack of trees as a shade along the road.                            | Shady                                             |

Conclusions and Recommendations

Conclusion

Livability Level of Suprapto Street If It Works As a Citywalk

From the results of the analysis and discussion it can be concluded that the level of livability of Suprapto Road is still low. This is seen from the results of the discussion that what affects the level of livability in suprapto roads is still low in accessibility, safety and environmental quality. These 3 variables have an important role in the comfort of activities on Suprapto Street. However, for the other 2 variables: Function and activity have a moderate level of livability this is because along Suprapto road which is dominated by commercial buildings and has several buildings with different functions so it forms a variety of activities at different times.

Factors That Influenced the Livable Citywalk on Suprapto Street

Factors that influence the livable City Walk on Suprapto Street can be seen from the relationship between physical aspects and non-physical aspects. Based on the results of the analysis and discussion, it was found several factors from the physical aspects that influence the level of livability on Suprapto Street:

1. Building Related Street Vendor Variables
Street vendors are the potential for the improvement of commercial functions in the Suprapto Street corridor. The activity of street vendors in the afternoon until the
evening is the potential to increase the area’s livestock in the afternoon until the evening. So that it is necessary to arrange and provide facilities in this case regional infrastructure.

2. Setback Related to Variable Parking, street Vendors, and Pedestrians

Street vendors are the potential for the improvement of commercial functions in the Suprapto Street corridor. The activity of street vendors in the afternoon until the evening is the potential to increase the area’s livestock in the afternoon until the evening. So that it is necessary to arrange and provide facilities in this case regional infrastructure.

3. Buildings Related to Setback Variables

Buildings with a regular setback reduce contrast in road space. One way to improve the quality of road space is to add setback contrast in the road space.

4. Pedestrian Path Related to Pedestrian Variables

Misuse of pedestrian paths by shops, parking lots, and street vendors leads to reduced comfort and safety for pedestrians. The principles of safety, related to protection from traffic conflicts, comfort (Convenience), relating to the clarity of the path, the ease of going to one place, and pleasure, comfort relating to aspects physical aspects such as protection from the weather have not been met.

5. Street Furniture Associated with Pedestrians

Seating, standing, talking, playing, and gathering activities cannot be carried out by pedestrians due to the absence of adequate street furniture facilities which causes low livability of the area from social activities.

6. Signage Related to Pedestrian Variables and Vehicle Users

Most types of signage identification, convey information about the identity of a store. The side signage attached to the building with medium height makes it easy for pedestrians and vehicle users to get information.

7. Vegetation Related to Pedestrians

Vegetation on Surpapto Road is very lacking, causing low intensity of pedestrian activity. Vegetation is one of the elements in increasing the livability of an area, the more shade vegetation the higher the intensity of pedestrian activity in open spaces.

| ROAD BEARING | ROAD ROOM | PEDESTRIAN PATH |
|--------------|-----------|-----------------|
| ROAD BEARING 1 | Open Space as a link between a series of buildings and the plural mosque | - Placement of street furniture in the pedestrian path as a pedestrian rest area. |
| ROAD BEARING 2 | Utilizing 2 nodes as open space that functions to connect the building mass and the entertainment stage. | - Street furniture in the pedestrian lane |

The concept of utilizing road space as an open space/transit point

Design Recommendations

Existing Road Cut 2

Node Design Recommendations 1

Node Design Recommendations 2

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ROAD BEARING 3

Make parking bags in the Open Space area to prevent traffic jams and provide comfort for visitors.

- Street furniture in the pedestrian lane
- Green line along the pedestrian path

Design Recommendations

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