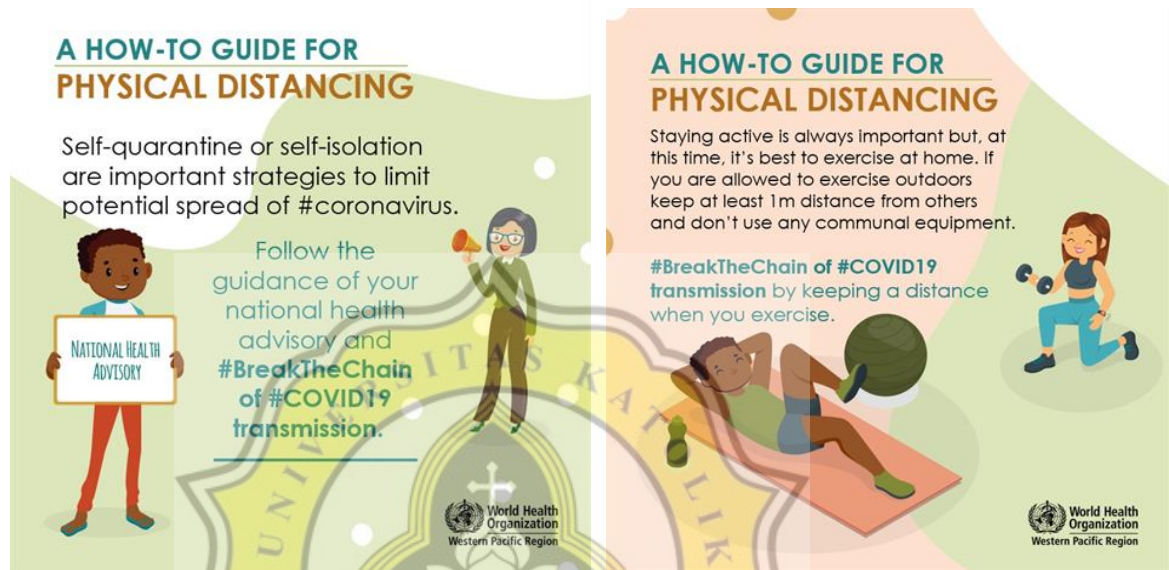


BAB 4. PROBLEM DETERMINATION

4.1 Problem Analysis

The importance of analyzing the problem by contrasting the function of the building with existing aspects, such as:

4.1.1 Building Function Problems With User Aspects



Picture 4.1 Selected Site
Source : WHO

Social distancing, also called “physical distancing,” means keeping a safe space between yourself and other people who are not from your household. WHO (issued guidance about “How to Guide for Physical Distancing”. Self-quarantine or self-isolation is highly recommended for some people affected by the virus or some people who experience covid symptoms. that way we can break the covid distribution chain and provide comfort for the people around.

Staying active in sports is also an important thing, and even from WHO also recommends that everyone keep exercising. if you are doing outdoor activities, keep a minimum distance of 1 meter from other people. as much as possible also do not use public facilities. highly recommended if you exercise outside also bring your own equipment (hand sanitizer, towels, etc.)

COVID-19 spreads primarily from person to person. Fighting this disease is our joint responsibility. Protect yourself and others by making these 6 simple precautions your new habits:

- Clean your hands often
- Cough or sneeze in your bent elbow - not your hands!
- Avoid touching your eyes, nose and mouth
- Limit social gatherings and time spent in crowded places
- Avoid close contact with someone who is sick
- Clean and disinfect frequently touched objects and surfaces

According to chapter 2.2.2, PERBASI also issued several rules whereby these rules must be obeyed if the athlete wants to carry out training or activities in the new normal times such as.

According to CDC (Centers For Disease Control And Prevention), we should take some space with the people around us. COVID-19 spreads mainly among people who are in close contact (within a range of about 6 feet or approximately 1.8 meters). Spread occurs when an infected person coughs, sneezes, or talks, and drops from their mouth or nose or the nose of those nearby. The droplets can also be breathed into the lungs. the danger of an infected person having no symptoms may also play a role in the spread of COVID-19. Because people can spread the virus before they know they are sick, it is important social distancing to keep at least 6 feet away from others if possible, even if we don't have any symptoms. Social distance is very important for people who are at higher risk for severe disease than COVID-19. Each person has a different risk of disease. anyone can get and spread COVID-19. Everyone has a role in slowing the spread and protecting themselves, their families and their communities. In addition to following the rules of the health protocol, keeping a distance between you and others is one of the best tools we have to avoid getting this virus and slowing its spread in the community. Know our condition before leaving. Before going out, get to know and follow the guidelines of the local community health authority where you live. Preparing for Transportation is also important. Consider social distance options for traveling safely when carrying out errands or traveling to and from work. if using public transportation, still apply social distancing. In addition to this, limit your contacts when running errands: Only visit shops that sell

household goods directly when you really need to, and stay at least 6 feet from other people who are not from your household while shopping and waiting in line. If possible, use drive-thru, curbside pick-up, or delivery services to limit face-to-face contact with others. Maintain a physical distance between yourself and the shipping service provider during exchange and wear a mask. It is also important for us to choose Safe Social Activities. Keeping the distance between events and meetings is a must. It is safest to avoid crowded and crowded places where it might be difficult to stay at least 6 feet away from other people who are not from your household.

With the "new normal", of course it gives several problems to a basketball academy building,

- Circulation / exercise flow

Especially from the aspect of circulation. as much as possible this basketball academy building has a wide enough circulation to avoid physical contact between any users or athletes. Not only giving more circulation and more distance just on the field, but in all facilities used by athletes such as outdoor areas, gym areas, and other facilities.

From the aspect of comfort, the distribution of circulation in accordance with the curriculum (class level division) becomes a potential for athletes so that they are not confused where to practice. The constraints that exist for specific users are the provision of special circulation and consideration of the safety and comfort of circulation for those with special needs.

- Natural Vibes

In a new normal era, the comfort of the player is the most important thing because they tend to be bored and they need a new vibes. Then this basketball academy try to gives a new vibes with a biophilic approach and trying to bring a natural atmosphere. For the atmosphere offered may be able to present a biophilic approach not only in some green spaces, but we can present a biophilic approach in the presence of structures related to nature, namely glulam wood structures.

- Available space

With the application of one way circulation, then automatically the use of space and place would require greater distance / space. With the existence of basketball academy to answer the new normal era, this building has a wide enough circulation so that all users or athletes who are practicing can continue to practice comfortably.

In accordance with the title, this basketball academy building also applies international standards, but in this basketball academy building it must also apply the new normal approach itself. it is not only possible to apply international rules, but also the determination of circulation and distance is very important because again all for the convenience of the athlete. For example, for international standards, basketball academy needs to pay attention to the physical endurance of each athlete where most international basketball academies must provide diverse facilities such as a Jacuzzi, swimming pool, gym, and others. but with the application of the new normal rules, the forced swimming pool and jacuzzi were abolished because at the time of a pandemic like this the virus is very likely to spread through the media droplet. then for some facilities such as the gym and jogging track it is also necessary to pay attention to space and distance to avoid physical contact (according to health protocol).

It also becomes a problem when there are positive corona athletes. the basketball academy also needs to consider how to handle it so that the athlete can get treatment / be given the opportunity to isolate themselves in the mess for 14 days and then return to training.

Based on the description of the problem above, it can be concluded several formulations of the problem, namely as follows:

1. How is the application of basketball academy building circulation so that all users can apply social distancing correctly?
2. How to deal in architectural way if there are athletes who experience covid symptoms or who are attacked by covid disease ?
3. How is the application of biophilic design in this basketball academy building to provide maximum comfort during a pandemic like this ?
4. How the application of international standards in basketball academy facilities ?

4.1.2 Building Function Problems With Site



*Picture 4.2 Selected Site
Source : Google Earth*

Contour topography in the BSB area is relatively flat, there is only a difference of 3 meters in width as the site. And the perimeter of the site is 938,19 m. For the present condition, there are many rubber trees in the existing site. The shape and width of the site are irregular. The main orientation of the site faces east. To position the site on the environment on the edge of the main road.



*Picture 4.3 Sewer in front of the site
Source : Personal analysis*

For the circulation, it is classified as very smooth because the accessibility found on the site has a wide enough width of + - 8 meters so as to avoid traffic jams and people passing by have a large and comfortable space.

For the availability of land it may be quite constrained because in the new normal times like this, surely a building especially the basketball academy building itself has a large circulation width requirement because with the existence of new normal, it must follow the protocol issued by the government, namely social distancing. with the existence of this social distancing that affects the area of the site. but fortunately the site taken for the basketball academy has a wide land area. for the width of the chosen tread environment it can reach 120,000 square meters

Based on the description of the problem above, it can be concluded several formulations of the problem, namely as follows:

1. What is the processing of existing trees (rubber trees) for the utilization of green open space ?
2. How to arrange the orientation of the field with the presence of land that has little contour ?

4.1.3 Building Function Problems With Environment From The Outside



*Picture 4.4 Sewer in front of the site
Source : Google Earth*

For obstacles from environmental conditions the site is more to accessibility. In front of the site there is a sewer which is a water channel. therefore a concrete cast access must be built on the gutter so that cars or motorbikes that want to enter the location can directly

enter and access becomes easy. For the iron frame used must be strong, if not, it will endanger the cars or motorcycles that cross the bridge (the bridge to enter the site).

In the western part of the site there is an arga golf housing. With the existence of the arga golf housing is an obstacle for this basketball academy because this basketball academy must minimize the noise generated so as not to disturb housing in the western part of the site.

According to Picture 3.13, with the existence of the green area in the middle of the road, it makes people who come to the site from the north side cannot directly enter the site, but must go through a U-turn so that they can enter the site.

Based on the description of the problem above, it can be concluded several formulations of the problem, namely as follows:

1. How to use the gutter in front of the site so that it can be accessibility for all basketball academy building users?
2. How to make all the people who want to enter the site have the same access ?

4.2 Problem Statement

The problem formulation is not only derived from the above analysis, but the problem is also related to the Project Background which has been described in section 1.2 Problem Formulation, and based on the results of the problem formulation obtained in each analysis of the relationship of building functions to aspects of users, environmental aspects, and site aspects , will be sorted by looking at the level of importance / urgency of the problem, problems that have a high level of importance will be the main problems that predominantly influence the design of this basketball academy building, then the following are priority issues that have been selected from the analysis of the search for building function problems to 3 aspects that have been analyzed above and also the formulation of problems originating from the background that have been classified based on their level of importance and are the 3 main problems in this project, which are:

1. How to apply the biophilic approach (natural approach) to provide comfort to all athletes in the new normal era ?
2. What is the application of new normal rules to create a comfortable and safe space for athletes when they practice ?
3. How the application of international standards in basketball academy facilities ?