

6 Transportation Problems

According to the study of traffic and transportation conditions, the interviews from the related parties as well as the locals, and the review of related literatures towards the traffic and transportation related problems, present traffic and transportation related problems in the city could be classified as follows;

- Problems in traffic management
- Problems in traffic safety
- Problems in logistics system
- Problems in road network expansion
- Problems in livable and sustainable development
- Problems related with tourism promotion
- Problems in public transportation

6.1 Problems in Traffic Management

Traffic congestions arose due to several reasons; high traffic volume, missing link in road network, the high density of the traffic, and ineffective traffic management which resulted in longer delays and congestion. Most problems found in Uttaradit are listed as follows;

Weaving problem at Huaypai intersection due to road users from Highway No.102 and highway No.1040 as shown in Figure 6.1-1



Figure 6.1-1 Weaving problem at Huaypai intersection

Traffic Congestion at Tungyang: From the studies of the capacity of the Highway No 12, it was found that there are still reserved capacity for the future traffic expansion (v/c ratio ranged between 0.27 – 0.59), but various traffic problems still exist, especially illegal parking as shown in Figure 6.1-2



Figure 6.1-2 Traffic congestion at Tungyang

Traffic Congestion at market area: The problem occurs because Jarerntam road has only two-lane road, while on street parking is allowed. Thus longer delays and congestion is happened especially on market area where large traffic volume is existed as shown in Figure6.1-3

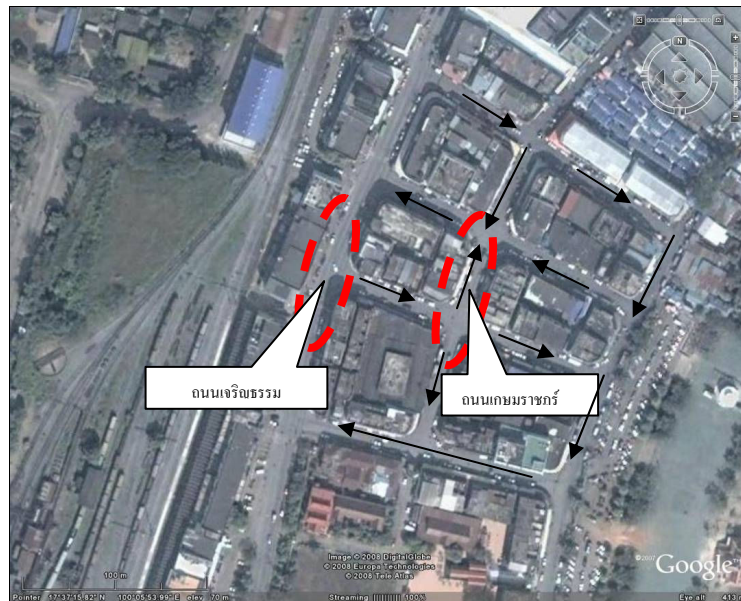


Figure 6.1-3 Location of traffic congestion at market area

Traffic Congestion in front of school: The problems arise at most of schools. This is because pick-up and drop-off in front of the school. This causes poor traffic conditions, especially during peak hour.

Poor Road Conditions: The examples of physical problems of the road conditions are shown in Figure.....;

- Surface deterioration
- Narrowed road width
- Improper corner radius
- Improper planning towards water draining

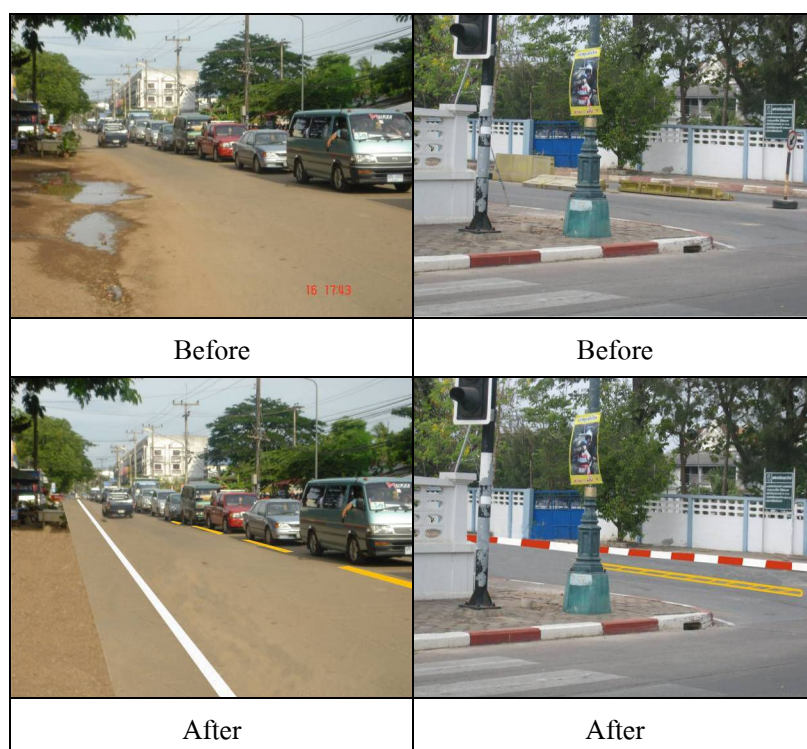


Figure 6.1-4 Location of traffic congestion at market area

6.2 Problems in road safety

The safety of street users damages lives and safety both towards the physical appearances and the assets. Major problems arose from the road physical conditions, and the behaviors of the street users.

Black spots: Crucial areas that accidents may arise easily included 10 points listed in Figure 6.2-1

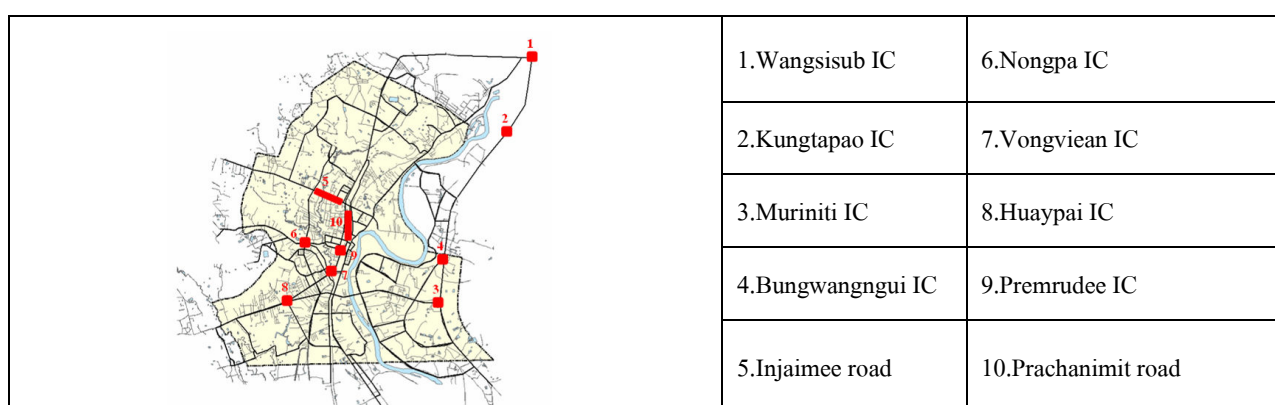


Figure 6.2-1 Black spots in Uttaradit

6.3 Problems in logistics system

6.3.1 Container yard development

Silaart station has potential for developing as container yard. However, there are still problems to be solved.

- Lack of locomotives and container cars
- Lack of lift facilities
- Lack of warehouse

6.3.2 Container yard development

Major border trade in Uttaradit is Phudu. The amount of trade is continually increasing. However, there are problems about road condition and traffic circulation at the border trade area as shown in Figure6.3-1 and Figure6.3-2



Figure 6.3-1 Road condition to border trade area at Phudu



Figure 6.3-2 Border trade at Phudu

6.4 Problems in road network expansion

Due to the unexpected situation, there are substantial growths towards the expansion and the movement of there important educational institutes to be located out of town casing unplanned traffic management as shown in Figure 6.4-1

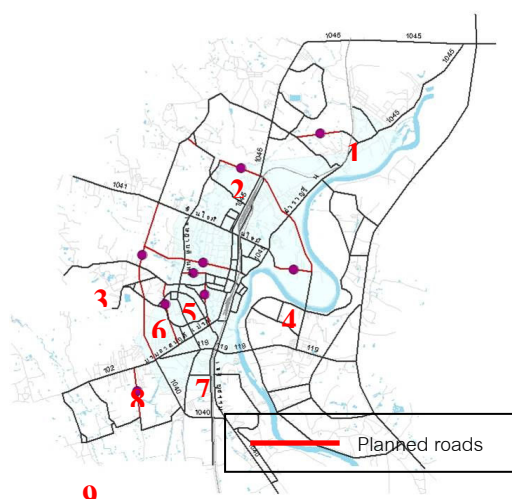


Figure 6.4-1 Road construction project for road network expansion in Uttaradit

6.5 Problems in livable and sustainable development

There are 7.5 bicycles lane network existed in Uttaradit. However, the network is not completed and the conditions of the bicycle lanes is not suitable as shown in Figure...



Figure 6.1 Conditions of bicycle lane in Uttaradit

6.6 Problems related with tourism promotion

Uttaradit has various archeological sites and many interesting tourist attractions. Effective management plans are therefore required to implement tourism supporting transportation systems. The problems related with tourism promotion are lack of supporting in fruit farming and also tourism signs are not adequate.

6.7 Problems in Public Transportation

Mainly, the problems towards Uttaradit Public Transportation Management are due to improper strategic planning, the lack of serious law enforcement, and the lack of effective transportation networks which can be shown as examples as follows;

Public Buses: Low commutes in public transportation, which causing the lack of public bus services or inconvenience.

Parking Spaces for public school buses: The problem towards the parking spaces for public school buses occurred during the rush hours both in the morning and in the late afternoon.

Multi-modal Facility: The multimodal supporting facilities have to be improved since Uttaradit is becoming the regional transportation hub.