

Methods of Organizing Traffic at the Intersections of the Streets of the City of Samarkand Based on Modern Requirements (For Example, The Intersection of M. Ulugbek and Gagarin Streets)

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Annotation: Before proceeding to the development of measures for the improvement and improvement of the trunk network of the Central zone of Samarkand, the trunk network of the center throughout the city, it is necessary to determine the necessary capabilities of the street and road network of the Central Zone. If measures are not taken to divert transit traffic from the center, the street and road network of the Central Zone will not cope with the traffic load. Improving the conditions of circulation of traffic flows in the central zone is associated with the diversion of transit traffic from it. The above practical recommendations can be achieved by implementing them for the purpose of design and practical application on other densely populated, busy streets of our republic. The proposed project - a "three-storey overpass" will prevent congestion at the intersection of Mirzo Ulugbek and Gagarin Streets, which is one of the main and busiest streets of the city of Samarkand.

Keywords: rush hour, intersection, road network, streets, overpasses.

Introduction

The General plan of the city of Samarkand of 1980 was revised in 2003 on the basis of the report of the Cabinet of Ministers of 23.10.2001 No. 08-10-107 and the resolution of the Cabinet of Ministers of the Republic of Uzbekistan No. 19-08-93 of 31.10.2001 on the redevelopment of the general plan of the city of Samarkand. During the reconstruction of the city's master plan, the socio-economic and political conditions and activities of the city were planned as follows:

1. We are building a modern city - 2003;
2. Firstly, the reconstruction of the city - 2010;
3. Completion date - 2025.



Figure 1. Bogishamol intersection on Gagarin Street

Main part

Considering that the population of our republic is more than 36 million people, the need for transport is also high. Therefore, traffic on the streets increases every year.

Taking into account the increase in the number of cars, if we take the next 20 years or 40-50 years, the number of cars will inevitably increase dramatically. As the number of vehicles increases over the years, the streets and roads of the city become unsatisfactory, and traffic jams occur on the streets and roads. Because traffic jams are already appearing on several streets of our republic. If we take at least one example of the city of Samarkand, then on the main streets of the city, i.e. at the intersection of Mirzo Ulugbek and Gagarin Streets (popularly called Bogishamal intersection), as well as at the intersections of Beruni, the Great Silk Road and Mirzo Ulugbek Street (popularly a Turn), today traffic jams at these intersections are longer in the morning and evening (chaspik), for example: you can barely pass when the traffic light is 2, 3 and 4 times it burns green. Naturally, such delays become the reason that someone is late for work, someone for school, and someone for personal matters. Figures 1 and 2 below show traffic patterns at these intersections.



Figure 2. The intersection of Beruni, the Great Silk Road and Mirzo Ulugbek streets (known among the residents of Samarkand as "Pavarot")

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These photos were taken on February 5, 2022 at 12:00 16:00 and 12:00 16:00. As you can see, there are a lot of traffic jams at intersections, and now imagine a traffic jam in the morning, i.e. during rush hour.



Figure 3. The current state of the Bagishamol intersection at the intersection of Mirzo Ulugbek and Gagarin streets



Figure 4. Satellite view of the Bogishamol intersection, where Mirzo Ulugbek and Gagarin streets meet.

With this in mind, special attention is paid to improving the quality of the traffic system in our Republic, reconstruction and modernization of the highway network in accordance with accepted national and international standards, construction of new and convenient city streets. Every year, a large amount of investments is allocated from the state budget for the development of the transport system.

Conclusion

In a word, the use of overpasses in areas with unfavorable terrain for organizing traffic on city streets, preventing traffic jams and conflict situations at intersections, despite the fact that the bridge project proposed for the Bogishamol intersection at the junction of Mirzo-Ulugbek and Gagarin Streets is a one-story bridge, it has a traffic light, uninterrupted traffic, that is the proposed project is designed in such a way that the movement of vehicles in all directions is ensured even without traffic lights; There is no need to demolish existing structures and move them away, the existing track of the road is used to the maximum; The proposed project and the work performed can be achieved by implementing the above practical recommendations for the purpose of their design and implementation not only in the Samarkand region, but also on other densely populated, busy streets of our Republic.

References

1. Madiev, FM; , "Measures for the development of higher education in the Republic of Uzbekistan today," "Modern scientific solution of current problems" international scientific-practical conference. " Rostov-on-Don, Russia", 140142,, 2020,
2. Madiev, FM; Saidova, N; , "Landscaping is a priority for development," "Scientific research results in pandemic conditions (COVID-19) Proceedings of International Multidisciplinary Conference, Part-3, Shawnee, USA", 1,3,139142,2020,
3. Farrukh, Madiev; Sodiq, Rahmonkulov; , "Standardization of traffic, Результаты научных исследований в условиях пандемии (COVID-19), 1,03,135-139,2020, Scientific research results in pandemic conditions (COVID-19) Proceedings of ...

4. Madiev, FM; Sh, N; ,Improving traffic in Samarkand,VI International scientific-practical conference «GLOBAL SCIENCE AND INNOVATIONS,,,71-73,2019,
5. Madiev, Farrukh Muysinovich; Khaydarov, Shokhbozjon Zuhridinovich; ,SHAKHRISABZ CITY–ARCHITECTURAL HISTORICAL RESPONSIBILITIES,"FM Madiev, & SZ Khaydarov (Muh.), Zbiór artykułów naukowych recenzowanych. da",6,,58-61,2020,
6. Madiev, FM; Xudayberdiev, A; ,"Restoration is not labor, it is science.“",Science and Education,2,4,157-162,2021,"«SCIENCE AND EDUCATION» SCIENTIFIC JOURNAL ISSN 2181-0842 VOLUME 2, ISSUE 4 ..."
7. Мадиев Фаррух Муйсинович, Navruza Saidova; ,PRINCIPLES OF THE MODERN FORMATION OF NEIGHBORHOOD CENTERS IN THE RESTORATION OF THE CITY OF SAMARKAND (SAMARQAND SHAHRINI TIKLASHDA MAHALLA MARKAZLARINING ZAMONAVIY SHAKLLANISHINI TAMOYILLARI),Международный научный журнал Новости образования: исследование в XXI веке,1,4,709-721,2022,
8. F. Z. Chorshanbayev, Ch. O. Meliyeva, A. Ziyatova; ,"Shaharsozlik normalari va qoidalari asosida turar-joylarini, inshootlarini o'rganish hamda loyitsalash",Modern scientific challenges and trends,92,2018,19-26,2018,issue 11 part 1 december 2018 Collection of Scientific Works WARSAW ...
9. F. Z. Chorshanbayev, M.D. Mavlanov; ,Shaharsozlikda tirgak devor qurilmasining muxandislik yechimi,Modern scientific challenges and trends International Scientific Journal,132,2019,25-28,2019,"LONDON, UNITED KINGDOM Scientific Publishers ""iScience"
10. F. Z. Chorshanbayev, A.A. Berdiqulob, M. Rustamov; ,Shaharsozlikda landshaft dizaynning o'rni,MODERN SCIENTIFIC RESEARCH JOURNAL,370,2019,48-51,2019,"LONDON, UNITED KINGDOM Scientific Publishers ""iScience"""
11. F. Z. Chorshanbayev, I.Sh. Davlatov, A. Ziyatova; ,Shahar hududida turar joy binolarning landshaftini tashkil etish,MODERN SCIENTIFIC RESEARCH JOURNAL,370,2019,52-56,2019,"LONDON, UNITED KINGDOM Scientific Publishers ""iScience"""
12. F. Z. Chorshanbayev, Ch. O. Meliyeva, A. Ziyatova; ,Shaharsozlikda yer satxining tuzilishi,Me'morchilik va qurilish muammolari (ilmiy-texnik jurnal),150,2019,38-40,2019,"СамДАҚИ босмахонасида чоп этилди. Самарқанд шаҳар, Лолазор кўчаси, 70."
13. F. Z. Chorshanbayev, Ch. O. Meliyeva, A. Ziyatova; ,A Look on the History of Architecture,"INTERNATIONAL JOURNAL OF SCIENTIFIC ENGINEERING AND SCIENCE,370,2020,26-29,2020,"International Journal of Scientific Engineering and Science Volume 4, Issue ..."
14. Chorshanbayev, F. Z.; ,Shaharsozlik tarixi va buguni,"ME'MORCHILIK va QURILISH MUAMMOLARI (ilmiy-texnik jurnal),"177,2020,97-99,2020,"СамДАҚИ босмахонасида чоп этилди. Самарқанд шаҳар, Лолазор кўчаси, 70."