BLOOMINGTON TRAFFIC COMMISSION AGENDA January 24, 2024 4:30 P.M. –In-person and Virtual Hybrid meeting City Hall, Council Chambers Online link: <u>https://bloomington.zoom.us/j/6359441221</u> Meeting ID: 635 944 1221 Passcode: COBPT Dial in: +1 312 626 6799 US (Chicago)

I. Call to Order

II. Approval of Minutes A. October 25, 2023

III. Communications from Commission

IV. Public Comment*

A. Letter to Traffic Commission: Regarding Vehicles Running Red Lights -Kaitlyn

V. Reports from Staff

VI. Old Business*

VII. New Business*

A. TC-24-01 Karst Farm Connector Trail Project – Paul Satterly, Monroe County Highway Engineer

VIII. Traffic Inquiries:

IX. Adjournment:

Next meeting – February 28, 2024 – City Council Chambers

*Action Requested/Public comment prior to any vote (limited to five minutes per speaker)

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BLOOMINGTON TRAFFIC COMMISSION Draft Minutes October 25, 2023 5:00 P.M. –In-person and Virtual Hybrid meeting City Hall, Council Chambers

I. Call to Order In-person: Love, Alexander, Shadday, Ryterband, Moore, Cibor

II. Approval of Minutes

September 27, 2023 motion Ryterband, Second Alexander. Approved 6-0

III. Communications from Commission

- A. Cibor gave an update on the 7-line stop sign amendment to Title 15, and the mayor's veto of the inclusion of additional stop intersections along the route. A new 180 day order was issued to maintain what is currently installed at Dunn St. Further discussion is expected.
- B. Alexander gave an update on two items:
 - i. B-line closures and detour. Expressed a desire for the City to have a dedicated staff who could ensure that detours remain clear for travel.
 - ii. 17th side path project. Alexander expressed disappointment in the pedestrian experience at intersections along the path. Vehicles do not want to give pedestrians the right-of-way.

IV. Public Comment*

None

V. Old Business* None

VI. New Business*

- A. Feedback Requested from Boards and Commissions Traffic Commission Letter
 - i. The Commission reviewed the drafted letter based on their previous discussion. Discussion ensued. Motion to forward the letter to the Special Committee on Council Processes Alexander, Second Ryterband. Approved 6-0.

VII. Reports from Staff (moved to the end of the meeting)

- A. Staff Led: Advisory Transportation Commission Proposal
 - i. Presentation by Ryan Robling. Discussion ensued. No action required. Staff will bring updates if the proposal moves forward.
 - ii. Public Comment: Dave Askins Offered a potential name for the proposed commission.

VIII. Traffic Inquiries:

None

IX. Adjournment: 5:39 pm

Hi Kathleen,

Erika Oliphant sent me your email. I was talking with her about some concerns I have regarding people running red lights and asked her who might be a good person to talk to. She also recommended that I might attend the next Bloomington Traffic Commission meeting. I have some thoughts about a public safety awareness campaign.

For a while now, I have been concerned that running red lights seems to have become more and more common. I often see this happen at the intersection of Walnut and Winslow. I see people speeding up to the red light to get through it. The other day I was behind a Jeep heading south on Walnut approaching the Winslow intersection. The light turned red before they passed the Burger King and they still sped up to get through. It's so extreme now that when I am at any intersection and the light has just turned green for me, I tend to look both ways because I have seen people run the red light past the point where others have a green light.

The most concerning incident that happened with me recently was turning left onto Walnut from Miller. I had my son in the car with me. We had been at a red light and when the light turned green I started to turn. Four cars heading south on Walnut then sped through their red light cutting us off.

These aren't the only locations where I've seen this happen. I feel like it's become a pervasive issue and I don't think it's unique to Bloomington. I've heard reports of an increase in traffic fatalities and a simultaneous decrease in traffic violations nationwide. One of the reasons for this that I've seen is regarding a decrease in the budgets for traffic police.

I definitely think that one of the reasons it keeps going on is that there are little to no consequences for it. If there is the ability for more traffic police at some of these intersections, that might help. If budgets are an issue, I'm wondering about cameras being a possibility. I think if people start getting tickets that will have an impact. I'm also wondering about a public safety campaign, possibly putting signs up at the intersections near the traffic light saying something to the effect of: Running Red Lights Can Kill. It sounds sort of corny to me but I think it would be beneficial to have some kind of message that might have an effect on people.

Thank you for your offer for me to reach out.

I really appreciate your time,

Kaitlyn



TRAFFIC COMMISSION STAFF REPORT

Case #: TC-24-01 Date: January 2024

FROM: Ryan Robling, Planning Services Manager, Planning and Transportation Department

REGARDING: Karst Farm Connector Trail Project

Description and Purpose:

Please see included memo from Paul Satterly, Monroe County Highway Engineer.

Title 15 Changes:

Section 15.12.030, entitled "Signalized intersections." shall be amended by adding the following from Schedule D(1):

Cross Street	Cross Street
Constitution Avenue	Liberty Drive

<u>Recommendation</u>: Staff recommends that Traffic Commission forward the Title 15 changes to Council with a positive recommendation.



MONROE COUNTY HIGHWAY DEPARTMENT

5900 W. FOSTER CURRY DRIVE BLOOMINGTON, INDIANA 47403 PHONE: (812) 349-2555 FAX: (812) 349-2959 www.co.monroe.in.us

December 28, 2023

Andrew Cibor, P.E. City Engineer Engineering Department Bloomington City Hall 401 N. Morton Street Bloomington, Indiana 47404

Dear Mr. Cibor,

Monroe County is leading the design for the Karst Farm Connector Trail project. This project is federally funded through the MPO and involves both the County and the City. The letting is scheduled for January 18, 2024 and the project will be constructed in 2024.

The trail will start at the existing Karst Farm Greenway near the Gifford Road trail crossing, will run straight east along an existing farm field, continue east along the north side of the Lamplighter Mall trailer park, cross Curry Pike at Constitution Avenue, run along the north side of Constitution Avenue, and then run south along the east side of Liberty Drive to connect with the Bloomfield Trail at Bloomfield Road/SR 45. The trail on the east end of Constitution Avenue and on Liberty Drive will be within City limits.

The trail project will include the installation of two traffic signals to accommodate trail users and to improve the safety and level of service at these intersections. One signal will be located at the intersection of Curry Pike and Constitution Avenue and the other signal will be located at the intersection of Liberty Drive and Constitution Avenue. The Curry Pike traffic signal will be maintained by the County and the Liberty Drive traffic signal will be maintained by the City.

A traffic signal and turn lane warrant analysis was performed. The August 13, 2021 report determined that a traffic signal and a northbound left turn lane were warranted for the intersection of Liberty Drive and Constitution Avenue.

As attachments, we have included the traffic signal plan details, the plan and profile drawings of the trail within the City and the Traffic Analysis Memo with attachments.

The traffic signal will need to be approved by the Bloomington Traffic Commission. Please add this traffic signal to the January 24, 2024 Traffic Commission meeting agenda.

Please call me if you have any questions about this project, 812-349-2554.

Sincerely,

Paul B. Satterly Monroe County Highway Engineer

Attachments

cc: Lisa Ridge, Monroe County Highway Director



Traffic Analysis Memo Monroe Co., IN Constitution Way & Curry Pike Constitution Way & Liberty Drive

August 13th, 2021

Purpose and Need

The purpose of this study is to analyze traffic conditions at the intersections of **Constitution Way & Curry Pike** and **Constitution Way & Liberty Drive** to determine what intersection improvements would both improve vehicular traffic operations and serve pedestrians on the Karst Connector Trail. Monroe county has expressed a desire for a safe pedestrian crossing of Liberty Dr and Curry Pike, which are currently free flowing, so signalizing the intersections will be considered.

The following analysis has been performed:

- 1. Signal warrants at each intersection
- 2. Capacity analysis at each intersection
- 3. Turn lane analysis at Liberty Dr

Traffic Data & Analyzed Scenarios

Existing traffic data was provided by the County and collected during non-school hours. The county estimated traffic to increase by 25% due to both the school traffic that wasn't collected, and anticipated near-term growth in employment for nearby businesses, resulting in the following scenarios:

- Scenario 1, Existing Traffic Provided Traffic Volumes
- Scenario 2, Estimated Peak Traffic Provided Traffic Volumes + School Traffic + Near Term Growth

The existing data and estimated peak data can be found in Appendix 1.

1. Signal Warrant

The Indiana Manual on Uniform Traffic Control Devices (IMUTCD) provides standards and guidelines for the installation and operation of traffic control signals along public roadways. The IMUTCD requires that a Traffic Signal Warrant Analysis be performed prior to the installation of a new traffic signal to determine if a traffic signal will improve traffic safety and capacity operations. For a signal to be warranted, thresholds for one of nine warrants must be met.

For both of the study intersections, Warrant 3: Peak Hour Vehicular Volume was met for the estimated peak traffic volumes. The results of this warrant analysis are included in Appendix 2.



2. Capacity Analysis

The most common methodology to analyze roadway network capacity is a level-of-service (LOS) analysis. The LOS is a report card grading system which measures how well the capacity of an intersection or roadway segment accommodates the traffic volume demand. The LOS for intersections is based on the delay (in seconds) that a typical vehicle would experience while waiting at the intersection. **Appendix 3** summarizes the range of delays as listed in the 2010 HCM that are associated with each LOS letter for signalized and unsignalized intersections.

The capacity analysis was performed with the recognized software program Synchro. **Appendix 3** summarizes the resulting LOS and vehicle delay of the midday and PM peak hour for each scenario. **Appendix 4** includes reports generated by Synchro, showing program inputs and outputs.

Liberty Drive

The PM peak hour at Liberty operates at unacceptable levels of service for both existing and estimated peak scenarios with the existing one-way stop configuration, but with a signal, will operate at acceptable levels of service for both existing traffic and estimated peak traffic.

Curry Pike

The PM peak hour at Liberty operates at acceptable levels of service as a two-way stop except for eastbound during the estimated peak volume for the PM peak hour. Both the existing PM peak hour and estimated midday peak hour, however, have average eastbound LOS and delays of D - 28-29 seconds, which is close to the unacceptable E - 35 seconds. With a signal, the intersection will operate at acceptable levels of service for both existing traffic and estimated peak traffic scenarios.

3. Turn Lane Analysis

Turn lane analysis was performed for the Liberty Dr signal. Turn lane warrants are provided in chapter 46 of the Indiana Design Manual (IDM) to determine when right or left-turn lanes should be provided.

Right-Turn Warrants:

Section 46-4.01(01) of the IDM provides the right-turn lane warrants. The first warrant uses IDM Figure 46-4A to chart the vehicles in the direction of the right turn against the right turn volume. The resulting graph shows the **eastbound right-turn lane** "**should be considered**" and the **southbound right-turn lane** "**may not be necessary**." See **Appendix 5** for right-turn lane warrant analysis.

Simulating an eastbound right-turn lane in Synchro results in 95th percentile queue lengths of 33 ft for eastbound-left and 65 ft for eastbound-right using the estimated peak volumes. A minimal 100 ft eastbound right-turn lane with a 100 ft taper will be sufficient to handle most eastbound queues.



Left-Turn Warrants:

Section 46-4.01(02) of the IDM provides the left-turn lane warrants. The third warrant uses IDM Figure 46-4C, which utilizes volume parameters like opposing volume, advancing volume, speed, and percent left turns. Since the eastbound left-turn has no opposing volume, only the northbound left-turn was analyzed with this chart. The resulting analysis shows that a **northbound left-turn lane is warranted**. See **Appendix 6** for left-turn lane warrant analysis.

Simulating a northbound left-turn lane in Synchro results in 95th percentile queue length of 192 ft using the estimated peak volumes. A 200 ft northbound left-turn lane with a 100 ft taper will be sufficient to handle most northbound queues.

Sincerely, Matthew Oyer, P.E. <u>Moyer@bfsengr.com</u> (765) 423-5602 Butler, Fairman and Seufert, Inc.

Appendices

1.	Midday and PM Intersection Counts	(28 pages)
2.	Peak Hour Signal Warrant	(1 page)
3.	Capacity Analysis Parameters and Results	(2 page)
4.	Synchro Reports	(44 pages)
5.	Right-Turn Lane Warrant Analysis	(1 page)
6.	Left-Turn Lane Warrant Analysis	(1 page)



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