



Transportation Commission

February 14, 2023
Town Hall
2121 Cross Timbers Road
Flower Mound, TX 75028

6:30 p.m.

AGENDA

A. CALL TO ORDER

B. PLEDGE OF ALLEGIANCE TO THE AMERICAN FLAG

C. PUBLIC COMMENT

The purpose of this item is to allow the public an opportunity to address the Board/Commission regarding any item on this agenda that is not a "Public Hearing." Issues regarding daily operational or administrative matters should first be dealt with by calling Town Hall at 972- 874-6000 during business hours. To speak to the Board/Commission during public comment, please fill out a comment form, which is located in the lobby of Town Hall.

In accordance with the Texas Open Meetings Act, the Board/Commission is restricted from discussing or acting on items not listed on the agenda.

- Speakers are limited to 3 minutes; a tone will sound at 30 seconds left and when time has expired, and times may be adjusted by the Chair depending on the number of speakers.
- Speakers must address their comments to the Board/Commission.
- Please state your name and address when speaking.

D. TRAFFIC MANAGER REPORT

1. Update status report related to operational issues, capital improvement projects, and TxDOT projects
2. Future Transportation Commission meeting dates
3. Future Agenda Items
4. Transportation Commission update report at the May 18, 2023, Town Council Work Session

E. CONSENT ITEM(S)

This part of the agenda consists of non-controversial, or "housekeeping" items required by law. Items may be removed from Consent by any Commissioner by making such request prior to a motion and vote.

1. Minutes 01/10/23 - Consider approval of the minutes from January 10, 2023.

F. WORK SESSION

1. Work session item to update the Transportation Commission on the progress of the Adaptive Signal System project

2. Work session item to discuss Deceleration Lanes and Bike Lane criteria as requested from the January Work Topics

G. ADJOURN

I do hereby certify that the Notice of Meeting was posted on the bulletin board at the Town Hall for the Town of Flower Mound, Texas, in a place convenient and readily accessible to the general public at all times and said Notice was also posted on the Town's website in accordance with GC Section 551.056 on the following date and time: February 10, 2023 at 4:00 p.m., at least 72 hours prior to the scheduled time of said meeting.

Tina Wells, Administrative Secretary

The Flower Mound Town Hall and Jody Smith Hall are wheelchair accessible. Requests for accommodation or interpretive services must be made 48 hours prior to this meeting by contacting Town Hall at 972.874.6000. Additional time limits will be provided for members of the public that need to address the Town Council through a translator.



Transportation Commission

January 10, 2023
Town Hall
2121 Cross Timbers Road
Flower Mound, TX 75028

6:30 p.m.

DRAFT MINUTES

A. CALL TO ORDER

Chair Chris Reed called the regular meeting to order at 06:30 PM.

The Transportation Commission met in a regular meeting with the following members present

Chris Reed - Commissioner, Place 6 - Chair
Cheryl Moore - Commissioner, Place 5 - Vice Chair
Bjorn Vandug - Commissioner, Place 1
Michelle Jackson - Commissioner, Place 2
Ron Hogue - Commissioner, Place 3
Charles Landry - Commissioner, Place 7
John Corbett - Commissioner, Place 9

with the following member(s) absent:

Todd Bayuk - Commissioner, Place 4
Jason Huse - Commissioner, Place 8(alternate)

constituting a quorum with the following members of the Town Staff participating:

Matthew Hotelling, Sr. Engineering Transportation Manager
Thomas Peppers, Graduate Traffic Engineer
Tina Wells, Administrative Secretary

B. PLEDGE OF ALLEGIANCE TO THE AMERICAN FLAG

C. PUBLIC COMMENT

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- Speakers must address their comments to the Board/Commission.
- Please state your name and address when speaking.

None Present

D. TRAFFIC MANAGER REPORT

1. Update status report related to operational issues, capital improvement projects, and TxDOT projects
2. Future Transportation Commission meeting dates
3. Future Agenda Items

E. CONSENT ITEM(S)

This part of the agenda consists of non-controversial, or "housekeeping" items required by law. Items may be removed from Consent by any Commissioner by making such request prior to a motion and vote.

1. Minutes 12/13 - Consider approval of the minutes from a regular meeting of the Transportation Commission held on December 13, 2022.

ACTION: Commissioner Landry moved to approve item E.1. as presented in the agenda caption. Commissioner Jackson seconded the motion.

AYES: Commissioner's Vandug, Jackson, Hogue, Moore, Landry, Corbett

NAYS: None

ABSTAIN: None

RESULT: 6 : 0 : 0

F. WORK SESSION ITEM(S)

1. Presentation and discussion related to List of Potential Transportation Commission Work Topics for 2023.

G. ADJOURN

ACTION: Vice Chair Moore moved to approve item G. as presented in the agenda caption. Commissioner Corbett seconded the motion.

AYES: Commissioner's Corbett, Landry, Moore, Hogue, Jackson, Vandug

NAYS: None

ABSTAIN: None

RESULT: 6 : 0 : 0



TRANSPORTATION COMMISSION AGENDA F.1. WORK SESSION

DATE: February 14, 2023
FROM: Matthew Hotelling, Senior Engineering Transportation Manager
ITEM: **Work session item to update the Transportation Commission on the progress of the Adaptive Signal System project**

BACKGROUND: In November of 2021, the Transportation Commission (TRC) held a work session item to discuss the location of the then proposed Adaptive Signal project. The Morriss corridor was recommended by TRC and ultimately selected by Town Council. Prior to that meeting, in February of 2019, the TRC had an initial work session regarding the adaptive signal control called Synchro Green from the representatives of Cubic/Trafficware. Cubic is one of the manufacturers of the Town's traffic signal controllers and the central system software called ATMS.now.

The Adaptive Signal project was approved as part of the Capital Improvement Plan in the fiscal year (FY) 22/23 budget for the Morriss Corridor. As part of the research and due diligence for the project, the Town determined that the best fit for our Adaptive Signal project was to use a new traffic signal controller manufactured by Econolite. Once the project kicked off at the beginning of this current FY, the Traffic Operations Division began procuring and installing the new Econolite controller in the 19 locations that are a part of this project. That process has been completed and the new central system software called CentraCS Mobility is up and running.

Another aspect of the Adaptive Signal project was the installation of new data analytics/detection cameras called Miovision. These cameras allow the Town to get various performance measures directly from the system. The performance measure information has already proven valuable as staff has been able to make adjustments to the existing system and improve operations. Staff has finished installing the new Miovision cameras throughout the Adaptive Signal project corridor.

The performance measures from the system will be valuable information to determine the amount of increased benefit from the new Adaptive Signal system. As was discussed at a previous TRC meeting, an adaptive system cannot increase the capacity of a roadway. Overall capacity is determined by the number of lanes of a system. What an adaptive system will do is make the existing system more efficient. Traditional timing plans look at a system over a longer time period, such as between 4 and 7 pm for an evening rush hour. On the fringe of that time period, it is typically different than during the peak of the peak. Where a traditional timing plan tries to accommodate the entire time, an adaptive system will look at the system in much smaller time periods, as short as every cycle of the traffic signal. The data collected is sent through the Town's network, through the internet to the adaptive system. The adaptive system will decide on the best timing plan for the corridor and send it back through the internet to the Town system and ultimately back out to the individual traffic signals. Then the system will continue this cycle of evaluation and adjustments throughout the evening peak period. As the volume of traffic on a roadway reaches capacity, the timing of the corridor will more and more resemble a traditional timing plan as the variation in the traffic lessens.

The next part of the process is twofold. The system needs to go through a "Learning process". The

system will run for a 3-week period while the system learns typical patterns and volume of vehicles. The system uses this information for a proposed base line of timing. The second part of that process is staff continuing to train and learn the adaptive system. There are quite a few different settings to go through and learn with a complex system such as this. Depending on the results of this portion, the process may need repeating or move forward to implementation. It will move forward to the implementation phase once the previous process is complete and everything is running properly and the system has been fine tuned. Then there is another round of collecting data after the system has been in place for several weeks. That data can be compared to previous data to determine improvement. The system may need to relearn over the summer or after summer break as the traffic patterns along this corridor are considerably different over the summer.

BOARD REVIEW/CITIZEN FEEDBACK: N/A

ALTERNATIVES: N/A

FISCAL IMPACT: N/A
N/A

LEGAL REVIEW: N/A

ATTACHMENTS:
None

DRAFT MOTION: The purpose of this item is to provide an update to the Transportation Commission. No formal action is required.



TRANSPORTATION COMMISSION AGENDA F.2. WORK SESSION

DATE: February 14, 2023
FROM: Matthew Hotelling, Senior Engineering Transportation Manager
ITEM: **Work session item to discuss Deceleration Lanes and Bike Lane criteria as requested from the January Work Topics**

BACKGROUND: During the January 2023, the Transportation Commission (TRC) meeting work topics item, the Commission gave a list of possible training items throughout the year. Two of those training topics are being presented here as part of this work session item.

The training topics that will be discussed as part of this item are as follows:

- Deceleration Lane criteria
- Bike Lane criteria

BOARD REVIEW/CITIZEN FEEDBACK: This training is a result of the feedback received by the TRC as part of the January 2023 work topics

ALTERNATIVES: N/A

FISCAL IMPACT: N/A
N/A

LEGAL REVIEW: N/A

ATTACHMENTS:
None

DRAFT MOTION: The purpose of this item is to provide training to the Transportation Commission. No formal action is required.