



City of Denton

City Hall
215 E. McKinney Street
Denton, Texas
www.cityofdenton.com

AGENDA INFORMATION SHEET

DEPARTMENT: Capital Projects

CM/ ACM: Mario Canizares

Date: June 6, 2017

SUBJECT

Consider adoption of an ordinance of the City of Denton, Texas, amending Chapter 18 of the Code of Ordinances by modifying section 18-73 to change the speed zones on Country Club Road (FM 1830), Teasley Lane (FM 2181), and Fort Worth Drive (US 377); amending sections 18-212 and 18-213 to reduce the school zone speed limits for Guyer High to reflect the new speed limit on Teasley Lane (FM 2181); altering the prima facie speed limits established for vehicles under the provision of transportation code, section 545.356 upon the following roadways, or parts thereof, within the incorporated limits of the City of Denton; providing a penalty not to exceed \$200.00 unless the violation occurs in a work zone and then the penalty shall not exceed \$400.00; providing a severability clause; providing a repealing clause; providing for publication; and declaring an effective date. The Traffic Safety Commission recommends approval (5-0).

BACKGROUND

The primary criterion used in establishing a speed limit is called the 85th percentile speed which is determined by performing a speed study for calculating the speed at which 85 percent of the vehicles are traveling long a given stretch of roadway. The 85th percentile speed has been determined as being the speed at which a prudent driver, given the type of street, will drive that roadway under normal driving conditions.

Texas Department of Transportation (TxDOT) recently conducted a speed study (attached) to determine the 85th percentile speed along the following roadway segments;

- Teasley Lane (FM 2181) between IH 35 E Southbound Frontage Road and the south/easterly City limits
- Fort Worth Drive/US 377 from Lindsey Street to south/westerly City limits
- Country Club Drive/FM 1830 from Sanders Road to southerly City limits

Teasley Lane (FM 2181)

Based on the results of the study, TxDOT recommends the following speed limits along various segments of Teasley Lane (FM 2181) between IH 35 E Southbound Frontage Road and the south/easterly City limits.

From IH 35 E Southbound Frontage Road to Savannah Trail	35 mph
From Savannah Trail to 500 feet West of Pennsylvania Drive	45 mph
From 500 feet West of Pennsylvania Drive to Lillian Miller Parkway	40 mph
From Wind River Lane to south/easterly City limits	45 mph

There is a school zone in front of Guyer High School that will be impacted due to the proposed change in speed limit along Teasley Lane/FM 2181. TxDOT allows lower school zone speed limits to be set at 15 mph below the regular speed limit of the roadway segment. As such, a speed limit of 30 mph is recommended along the school zone in front of Guyer High School since the regular proposed speed limit along this segment of Teasley Lane/FM 2181 is 45 mph.

Fort Worth Drive (US 377)

Based on the results of the study, TxDOT recommends the following speed limits along various segments of Fort Worth Drive (US 377) between Lindsey Street and south/westerly City limits.

From Lindsey Street to IH 35 E Southbound Frontage Road	35 mph
From IH 35 E Southbound Frontage Road to 550 feet north of Massey Road	40 mph
From 550 feet north of Massey Road to 250 feet south of Country Club Drive/FM 1830	50 mph
From 250 feet south of Country Club Drive/FM 1830 to south/westerly City limits	55 mph

Country Club Road (FM 1830)

Based on the results of the study, TxDOT recommends reducing the speed limit along Country Club Road/FM 1830 from Sanders Road to southerly City limits to 50 miles per hour (mph) from the existing speed limit of 55 mph.

City staff has reviewed the TxDOT speed studies for all three corridors and finds the overall results and recommendations acceptable and consistent with state and federal guidelines. As such, staff requests the City Council to approve the updated speed limits on Teasley Lane (FM 2181), Fort Worth Drive (US 377) and Country Club Road. Traffic Safety Commission agreed on the revised speed limits and recommended 5-0 that Council consider updating the speed limits along Teasley Lane (FM 2181) between IH 35 E Southbound Frontage Road and the south/easterly City limits, along Fort Worth Drive/US 377 from Lindsey Street to south/westerly City limits and along Country Club Drive/FM 1830 from Sanders Road to southerly City limits.

OPTIONS

1. Approve the updated speed limits on Teasley Lane (FM 2181), Fort Worth Drive (US 377) and Country Club Road.
2. Reject the proposed speed limits on Teasley Lane (FM 2181), Fort Worth Drive (US 377) and Country Club Road

RECOMMENDATION

The Traffic Safety Commission considered this item at the May meeting and recommends Option 1 (5-0).

ESTIMATED SCHEDULE OF PROJECT

It is anticipated the work could be scheduled for completion within a month of Council approval.

PRIOR ACTION/REVIEW (Council, Boards, Commissions)

The Traffic Safety Commission considered this item at the May meeting and recommends Option 1 (5-0).

FISCAL INFORMATION

The project funding would be covered by existing Operation Budget funding.

STRATEGIC PLAN RELATIONSHIP

The City of Denton's Strategic Plan is an action-oriented road map that will help the City achieve its vision. The foundation for the plan is the five long-term Key Focus Areas (KFA): Organizational Excellence; Public Infrastructure; Economic Development; Safe, Livable, and Family-Friendly Community; and Sustainability and Environmental Stewardship. While individual items may support multiple KFAs, this specific City Council agenda item contributes most directly to the following KFA and goal:

Related Key Focus Area: Public Infrastructure

Related Goal: 4.1 Enhance public safety in the community

EXHIBITS

1. 17-650 - AIS
2. TxDOT Speed Study Teasley Lane/FM 2181
3. Map of Teasley Lane/FM 2181
4. TxDOT Speed Study Fort Worth Drive/US 377
5. Map of Fort Worth Drive/US 377
6. TxDOT Speed Study Country Club Road/FM 1830
7. Map of Country Club Road/FM 1830
8. Ordinance

Respectfully submitted:
Galen Gillum
Capital Projects

Prepared by:
Pritam Deshmukh
Traffic Engineer