



Fort Bend County Engineering  
FORT BEND COUNTY, TEXAS

Richard W. Stolleis, P.E.  
County Engineer

January 31, 2017

Commissioner Vincent M. Morales, Jr.  
Fort Bend County Precinct 1  
1517 Eugene Heimann Circle  
Richmond, TX 77469

**RE: Traffic Study – Multi-Way Stop Control Analysis for: Macek Road at Tara Drive  
Addition of “DO NOT BLOCK CROSSWALK” Signs on Macek Road**

Dear Commissioner Morales:

The Fort Bend County Engineering Department has completed a review of the operational conditions at the intersection of Macek Road at Tara Drive in response to a request for multi-way stop control. The intersection currently operates with stop control on Tara Drive. Both streets are identified as Collectors in the 2015 Fort Bend County Major Thoroughfare Plan.

Traffic counts were collected at the intersection and used to evaluate the intersection for multi-way stop control based on the warrants required by the State of Texas in the Texas Manual on Uniform Traffic Control Devices. Based on the data collected, traffic volumes do not warrant multi-way stop control at this intersection. Additionally, recent crash history at the intersection does not warrant multi-way stop control and sight distance from Tara Drive is adequate. During observations of traffic operations at this intersection, it was observed that during school arrival and dismissal times, queuing on Macek Road occasionally resulted in cars stopping in the crosswalk immediately north of Tara Drive, impeding the crossing of pedestrians.

Based on the above results, Engineering does not recommend multi-way stop control at this intersection. It is recommended that “DO NOT BLOCK CROSSWALK” signs be posted at the crosswalk immediately north of Tara Drive in order to assist in the safe crossing of pedestrians.

A copy of the traffic control plan and Multi-Way Stop Control Worksheet are attached for your review. The public hearing date for acceptance for the plan will be scheduled on the next available Commissioner's Court Agenda. If you have any questions please do not hesitate to contact me at 281-633-7528 or [chris.debaillon@fortbendcountytx.gov](mailto:chris.debaillon@fortbendcountytx.gov).

Regards,

A handwritten signature in blue ink, appearing to read "Chris Debaillon".

Chris Debaillon, PE, PTOE  
Assistant County Engineer - Traffic

cc: Judge Robert E. Hebert, County Judge  
Marc Grant - FBC Road & Bridge  
Brian Fields - Signage Department  
File

Attachments

301 Jackson St., 4<sup>th</sup> Floor | Richmond, TX 77469 | Phone 281-633-7500

## Multi-Way Stop Warrant Analysis Summary

2011 Texas Manual on Uniform Traffic Control Devices Multi-Way Stop Warrants



Survey Date: 10/18/2016

Precinct 1

Fort Bend County Engineering

Streets		Speeds:	85th Pct.	Posted
Major	Macek Rd		-	30
Minor	Tara Dr		-	30

### Eight Highest Hours:

Hour	Major St.	Minor St.
	Veh. Total	Unit Total
6:00	638	103
14:00	361	48
13:00	212	30
17:00	550	29
7:00	366	28
16:00	605	26
15:00	486	25
10:00	154	19
<b>Average</b>	<b>422</b>	<b>39</b>

### Required Average Vehicle Volumes:

Major St. - Both Approaches			Minor St. - Both Approaches		
<b>100%</b>	80%	70%	<b>100%</b>	80%	70%
<b>300</b>	240	210	<b>200</b>	160	140

80% Condition used when there have been 4 or more crashes susceptible to correction by a multi-way stop in a 12-month period

70% Condition used when major street posted or 85th percentile speed exceeds 40 mph

Eight-Hour Average Vehicular Volume Warrant Satisfied? No

Is a traffic signal warranted and are arrangements being made for its installation? No

Have there been 5 or more crashes susceptible to correction by a multi-way stop in a 12-month period? No

Is a driver on the minor street, after stopping, unable to see conflicting traffic and is unable to reasonably negotiate the intersection unless conflicting cross traffic is also required to stop? No

Is there a need to control pedestrian/vehicle conflicts and is the intersection near a location generating high pedestrian volumes? No

Is the intersection composed of two residential neighborhood collector streets of similar design and operating characteristics where multi-way stop control would improve operations? No

### Comments:

Intersection does not warrant MWSC  
Install "DO NOT BLOCK CROSSWALK" signs





**Note:**

The purpose of this traffic control plan is to revise traffic control for the intersection of Tara Drive at Macek Road with the addition of "Do Not Block Crosswalk" signs as indicated on the drawing.

Drawn By: L. Brdecka  
Date: 1-31-17

Approved By: Chris Deballon, PE PTOE  
Date: *1/31/17*

Scale:  
1" = 100'-0"

**Tara Drive at Macek Road  
(Revised) Control Map and  
Traffic Sign Layout**

Fort Bend County Engineering Dept.  
301 Jackson Street  
Richmond, Texas 77469