



# MEMORANDUM

**TO:** Melissa Montemayor  
Attention: Alberto Ramirez, P.E.

**FROM:** William E. Knowles, P.E.

**DATE:** January 18, 2013

**SUBJECT:** Traffic Data  
CSJ: 0017-08-078  
1-35 East Frontage Road:  
From: Frio/LaSalle County Line  
To: 9.0 Miles South  
La Salle County

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Attached are tabulations showing traffic analysis for highway design for the 2013 to 2033 twenty year design period for the described limits of the route, along with data for air and noise analysis.

Due to significant differences in traffic volumes, data are presented in the below listed sections:

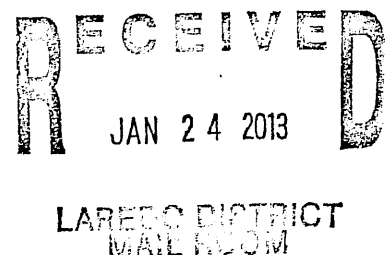
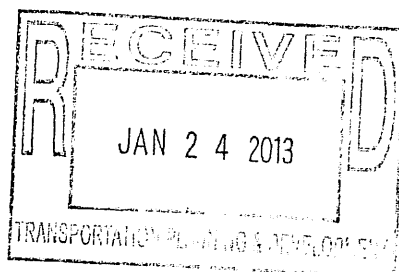
Section - 1 From Frio/LaSalle County Line to BI 35-C N. Jctn.  
Section - 2 From BI 35-C N. Jctn. to 9.0 Miles South

Please refer to your original request memo dated October 31, 2012.

If you have any questions or need additional information, please contact Bruce Uphaus at (512) 486-5104.

Attachments

cc: Hector Cayanan, Laredo District, TxDOT ✓  
Design Division



TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Description of Location	Average Daily Traffic		Dir Dist %	K Factor	Base Year		ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2013 to 2033)																	
	2013	2033			ADT	DHV			Flexible Pavement	S	Rigid Pavement	SLAB														
	<p>1-35 East Frontage Road</p> <p>Section 1</p> <p>From Frito/LaSalle County Line To BI 35-C North Junction</p> <p>La Salle County</p> <p>NOT INTENDED FOR CONSTRUCTION BIDDING OR PERMIT PURPOSES William Erick Knowles, P.E. Serial Number 84704</p>																									
	500	600	54 - 46	8.5	10.1	7.6	9,100	40	103,000	3	107,000	8"														
<p>Data for Use in Air &amp; Noise Analysis</p> <table border="1"> <thead> <tr> <th rowspan="2">Vehicle Class</th> <th colspan="2">Base Year</th> </tr> <tr> <th>% of ADT</th> <th>% of DHV</th> </tr> </thead> <tbody> <tr> <td>Light Duty</td> <td>89.9</td> <td>92.4</td> </tr> <tr> <td>Medium Duty</td> <td>8.6</td> <td>6.5</td> </tr> <tr> <td>Heavy Duty</td> <td>1.5</td> <td>1.1</td> </tr> </tbody> </table>													Vehicle Class	Base Year		% of ADT	% of DHV	Light Duty	89.9	92.4	Medium Duty	8.6	6.5	Heavy Duty	1.5	1.1
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	% of ADT	% of DHV																								
Light Duty	89.9	92.4																								
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Laredo District

January 14, 2013

**TRAFFIC ANALYSIS FOR HIGHWAY DESIGN**

January 14, 2013

Laredo District

Description of Location	Average Daily Traffic		Dir Dist %	Base Year		ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2013 to 2033)			
	2013	2033		K Factor	Percent Trucks			ADT	DHV	Flexible Pavement	S N
	<p><u>1-35 East Frontage Road</u></p> <p>Section 2</p> <p>From BI 35-C North Junction To 9.0 Miles South</p> <p>La Salle County</p>	1,800	2,700	54 - 46	8.5	7.5	5.6	30	313,000	3	327,000

**NOT INTENDED FOR CONSTRUCTION BIDDING OR PERMIT PURPOSES**  
 William Erick Knowles, P.E.  
 Serial Number: 84704

**Data for Use in Air & Noise Analysis**

Vehicle Class	Base Year	
	% of ADT	% of DHV
Light Duty	92.5	94.4
Medium Duty	6.4	4.8
Heavy Duty	1.1	0.8