

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Corpus Christi District

October 8, 2012

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 (2012 to 2032)			
	2012	2032		K Factor	Percent Trucks				Flexible Pavement	S	Rigid Pavement	SLAB
					ADT	DHV						
<u>US 77 Mainlanes</u> From FM 3354 To Kleberg County Line Nueces County	19,300	27,200	63 - 37	12.8	25.0	15.0	12,600	50	23,123,000	3	33,761,000	8"
NOT INTENDED FOR CONSTRUCTION BIDDING OR PERMIT PURPOSES William Erick Knowles, P.E.												
Serial Number 64704												
Data for Use in Air & Noise Analysis												
Vehicle Class	Base Year											
	% of ADT		% of DHV									
	Light Duty	75	85									
Medium Duty	3	1.8										
Heavy Duty	22	13.2										
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 30 Year Period (2012 to 2042)			
	2012	2042		K Factor	Percent Trucks				Flexible Pavement	S	Rigid Pavement	SLAB
					ADT	DHV						
<u>US 77 Mainlanes</u> From FM 3354 To Kleberg County Line Nueces County	19,300	31,000	63 - 37	12.8	25.0	15.0	12,600	50	37,519,000	3	54,780,000	8"

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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 (2012 to 2032)		SLAB	
	2012	2032		K Factor	Percent Trucks				Flexible Pavement	Rigid Pavement		
					ADT	DHV						S
<u>US 77 Frontage Roads</u> From FM 3354 To Kleberg County Line Nueces County	4,200	5,900	63 - 37	12.8	19.0	14.3	11,200	50	3,038,000	3	4,159,000	8"
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	81	85.7										
Medium Duty	2.3	1.7										
Heavy Duty	16.7	12.6										
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 30 Year Period (2012 to 2042)		SLAB	
	2012	2042		K Factor	Percent Trucks				Flexible Pavement	Rigid Pavement		
					ADT	DHV						S
<u>US 77 Frontage Roads</u> From FM 3354 To Kleberg County Line Nueces County	4,200	6,700	63 - 37	12.8	19.0	14.3	11,200	50	4,917,000	3	6,732,000	8"