

Texas Department of Transportation
TECHNICAL PROVISIONS

STATE HIGHWAY 71 TOLL LANES

Attachment 8-1
ESAL Counts

							Total Number of Equivalent 18K ESAL	
Description of Location	Average Daily Traffic		Base Year		ATHWLD	% Tandem Axles in ATHWLD	Single Axle Load Applications in One Direction Expected for a <u>20 Year</u> Period (2015 to 2035)	
			Dir. Dist. %	Percent Truck			Flexible Pavement	Rigid Pavement
	2015	2035		ADT				
<u>SH71 Toll Lanes</u> From Presidential Blvd to SH130 New Lanes and Inside Widening Section Travis County	24,655	29,300	50	10.4	15,100	50	6,272,000	--
							Total Number of Equivalent 18K ESAL	
Description of Location	Average Daily Traffic		Base Year		ATHWLD	% Tandem Axles in ATHWLD	Single Axle Load Applications in One Direction Expected for a <u>30 Year</u> Period (2015 to 2045)	
			Dir. Dist. %	Percent Truck			Flexible Pavement	Rigid Pavement
	2015	2045		ADT				
<u>SH71 Toll Lanes</u> From Presidential Blvd to SH130 New Lanes Travis County	24,655	34,800	50	10.4	15,100	50	13,703,000	20,653,500
							Total Number of Equivalent 18K ESAL	
Description of Location	Average Daily Traffic		Base Year		ATHWLD	% Tandem Axles in ATHWLD	Single Axle Load Applications in One Direction Expected for a <u>20 Year</u> Period (2015 to 2035)	
			Dir. Dist. %	Percent Truck			Flexible Pavement	Rigid Pavement
	2015	2035		ADT				
<u>SH71 General Purpose Lanes</u> New Lanes (20-y Design) and 4' Widening- Outside Shoulder Travis County	41,450	50,400	50	10.4	15,000	50	10,543,000	--

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

June 17, 2009

Description of Location	Base Year						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)					
	Average Daily Traffic		Dir Dist %	K Factor	Percent Trucks			ATHWLD	Flexible Pavement	S	N	Rigid Pavement	SLAB
	2013	2033			ADT	DHV							
	2013	2043	2013	2043	ADT	DHV							
<p><u>FM 973</u> From Harold Green Dr (CR1594) To 0.5mi. South of SH 71 Travis County</p>	20,200	30,700	73 - 27	13.5	8.1	6.1	13,600	7,073,000	3	9,635,000	8"		
<p>NOT INTENDED FOR CONSTRUCTION BIDDING OR PERMIT PURPOSES William Erick Knowles, F.E. Serial Number 84704</p>													
<p><u>FM 973</u> From Harold Green Dr (CR1594) To 0.5mi. South of SH 71 Travis County</p>	20,200	34,000	73 - 27	13.5	8.1	6.1	13,700	11,297,000	3	15,389,000	8"		

Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2013 to 2043)