

LIST OF DATA SOURCES

<u>Data Sources:</u>	<u>Analysis Year:</u>
FLUOR	
Schematic I-95 counts summary	2006
TMC data	2006
Metropolitan Washington Council of Governments (MWCOG)	
2006 Central Employment Core Cordon Count of Vehicular and Passenger Volumes (Draft)	2006
Virginia Department of Transportation (VDOT)	
AADT table (with AAWDT)	2005
Arlington County Transportation Engineering and Operations Bureau	
SYNCHRO model (Pentagon City)	2004
TMC data	2002
Federal Highway Administration – Eastern Federal Lands Highway Division (FHWA-EFLHD)	
L'Enfant Promenade and Benjamin Banneker Park EA Study	2003
HNTB	
Maine Avenue Traffic Study	2003
District Department of Transportation (DDOT)	
SYNCHRO model (Maine Avenue Traffic Study)	2003
ATR and TMC data (South Capitol Street Study)	2002
AAWDT map	2002
BMI	
14th Street Bridge Corridor Improvement Feasibility Study	1996

14th Street Bridge Corridor Environmental Impact Statement
Traffic Needs and Safety Report

VALIDATION RESULTS FOR THE “ADJUSTED” 2006 BASELINE HIGHWAY NETWORK

Screen lines	DDOT 2000 AAWDT	Estimated 2006 AAWDT*	COG/TPB Forecasted AAWDT**	Percent Difference***
Potomac River Crossings				
I-495	n/a	218,160	238,900	9.51%
Chain Bridge	26,500	28,130	30,700	9.14%
Key Bridge	63,900	67,831	72,300	6.59%
Roosevelt Bridge	100,000	106,152	107,900	1.65%
Memorial Bridge	73,000	77,491	81,900	5.69%
I-395 (14th Street bridges)	250,000	265,380	259,500	-2.22%
Total	513,400	763,144	791,200	3.68%
Anacostia River Crossings				
South Capitol Street	69,300	73,563	74,600	1.41%
11th Street	93,300	99,040	93,500	-5.59%
Penn Avenue	93,000	98,721	89,700	-9.14%
East Capitol	60,000	63,691	58,800	-7.68%
Benning Road	76,700	81,419	83,000	1.94%
Total	392,300	416,434	399,600	-4.04%
Grand Total		1,179,579	1,190,800	0.95%

*"Estimated 2006" AAWDT volumes are based on 1% annual growth from the DDOT 2000 AAWDT data, except for I-495 obtained from VDOT 2005 AAWDT data (AAWDT = Average Annual Weekday Traffic).

** Adjusted COG/TPB Network (2006)

*** Percent difference is computed as (COG/TPB Forecasted AAWDT - Estimated 2006 AAWDT) / Estimated 2006 AAWDT

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VALIDATION RESULTS FOR THE “ADJUSTED” 2030 BASELINE HIGHWAY NETWORK

	Comparison of Traffic Volumes and Speeds on 14th Street Bridge									
	Daily		AM Peak Period				PM Peak Period			
	NB	SB	NB	Speed	SB	Speed	NB	Speed	SB	Speed
Unadjusted Network (2030)	123,802	117,624	25,810	6.36	17,255	48.54	26,653	10.02	31,834	2.18
Adjusted Network (2030)	127,111	126,411	26,393	3.06	19,209	38.92	27,406	7.32	33,616	1.59
% Difference (Adjusted - Unadjusted)	2.67%	7.47%	2.26%	-51.89%	11.32%	-19.82%	2.83%	-26.95%	5.60%	-27.06%

	Comparison of Traffic Volumes and Speeds on HOV Spur (to/from Washington Blvd., VA 27)									
	Daily		AM Peak Period				PM Peak Period			
	NB	SB	NB	Speed	SB	Speed	NB	Speed	SB	Speed
Unadjusted Network (2030)	14,555	10,872	4,793	4.19	N/A	N/A	N/A	N/A	3,470	18.78
Adjusted Network (2030)	10,731	14,564	4,323	14.51	N/A	N/A	N/A	N/A	5,035	10.69
% Difference (Adjusted - Unadjusted)	-26.27%	33.96%	-9.81%	246.30%	N/A	N/A	N/A	N/A	45.10%	-43.08%

	Comparison of HOT Traffic Volumes and Speeds on (12427-12430,12431-12428)									
	Daily		AM Peak Period				PM Peak Period			
	NB	SB	NB	Speed	SB	Speed	NB	Speed	SB	Speed
Unadjusted Network (2030)	42,794	44,227	14,522	3.50	N/A	N/A	N/A	N/A	15,495	2.13
Adjusted Network (2030)	37,760	40,024	13,754	6.82	N/A	N/A	N/A	N/A	14,875	3.65
% Difference (Adjusted - Unadjusted)	-11.76%	-9.50%	-5.29%	94.86%	N/A	N/A	N/A	N/A	-4.00%	71.36%

	Comparison of HOT Traffic Volumes and Speeds on (12430-12434,12435-12431)									
	Daily		AM Peak Period				PM Peak Period			
	NB	SB	NB	Speed	SB	Speed	NB	Speed	SB	Speed
Unadjusted Network (2030)	28,237	33,356	9,758	62.75	N/A	N/A	N/A	N/A	12,026	50.09
Adjusted Network (2030)	27,028	25,481	9,430	63.13	N/A	N/A	N/A	N/A	9,841	63.51
% Difference (Adjusted - Unadjusted)	-4.28%	-23.61%	-3.36%	0.61%	N/A	N/A	N/A	N/A	-18.17%	26.79%

	Comparison of HOT Traffic Volumes and Speeds on (12434-5385,5383-12435)									
	Daily		AM Peak Period				PM Peak Period			
	NB	SB	NB	Speed	SB	Speed	NB	Speed	SB	Speed
Unadjusted Network (2030)	28,237	33,356	9,758	62.75	N/A	N/A	N/A	N/A	8,914	64.18
Adjusted Network (2030)	27,028	25,481	9,430	63.13	N/A	N/A	N/A	N/A	9,841	63.51
% Difference (Adjusted - Unadjusted)	-4.28%	-23.61%	-3.36%	0.61%	N/A	N/A	N/A	N/A	10.40%	-1.04%

	Comparison of HOT Traffic Volumes and Speeds on (5385-5386,5384-5383)									
	Daily		AM Peak Period				PM Peak Period			
	NB	SB	NB	Speed	SB	Speed	NB	Speed	SB	Speed
Unadjusted Network (2030)	21,435	21,806	6,120	53.05	N/A	N/A	N/A	N/A	6,928	52.83
Adjusted Network (2030)	16,572	19,837	4,772	53.72	N/A	N/A	N/A	N/A	5,969	53.37
% Difference (Adjusted - Unadjusted)	-22.69%	-9.03%	-22.03%	1.26%	N/A	N/A	N/A	N/A	-13.84%	1.02%