

## **APENDIX D**

### **Traffic and Revenue Estimates**

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**Table 1-1**  
**Per Mile Toll Rates**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Toll Rates are Shown in Future Year Dollars**

2014 Northbound									2014 Southbound										
Per Mile Toll Rate (\$)									Per Mile Toll Rate (\$)										
By Toll Zone									By Toll Zone										
Time	SR-167			I-405 South			I-405 North			Time	SR-167			I-405 South			I-405 North		
	Period	HOV Discount		8	10	12	14	16	18		Period	HOV Discount		7	9	11	13	15	17
AM1	5:00 AM - 6:00 AM	0.05	0.10	0.10			0.05	0.05	0.05	AM1	5:00 AM - 6:00 AM	0.05	0.05	0.05			0.05	0.05	0.05
AM2	6:00 AM - 7:00 AM	0.05	0.15	0.15			0.05	0.05	0.05	AM2	6:00 AM - 7:00 AM	0.05	0.05	0.05			0.05	0.05	0.15
AM3	7:00 AM - 8:00 AM	0.05	0.05	0.05			0.05	0.05	0.05	AM3	7:00 AM - 8:00 AM	0.05	0.05	0.05			0.05	0.05	0.10
AM4	8:00 AM - 9:00 AM	0.05	0.05	0.05			0.05	0.05	0.05	AM4	8:00 AM - 9:00 AM	0.05	0.05	0.05			0.05	0.05	0.05
AM5	9:00 AM - 10:00 AM	0.05	0.05	0.05			0.05	0.05	0.05	AM5	9:00 AM - 10:00 AM	0.05	0.05	0.05			0.05	0.05	0.05
AM6	10:00 AM - 11:00 AM	0.05	0.05	0.05			0.05	0.05	0.05	AM6	10:00 AM - 11:00 AM	0.05	0.05	0.05			0.05	0.05	0.05
MD1	11:00 AM - 12:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	MD1	11:00 AM - 12:00 PM	0.05	0.05	0.05			0.05	0.05	0.05
MD2	12:00 PM - 1:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	MD2	12:00 PM - 1:00 PM	0.05	0.05	0.05			0.05	0.05	0.05
MD3	1:00 PM - 2:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	MD3	1:00 PM - 2:00 PM	0.05	0.05	0.05			0.05	0.05	0.05
PM1	2:00 PM - 3:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	PM1	2:00 PM - 3:00 PM	0.05	0.05	0.05			0.05	0.05	0.05
PM2	3:00 PM - 4:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	PM2	3:00 PM - 4:00 PM	0.05	0.15	0.05			0.05	0.05	0.05
PM3	4:00 PM - 5:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	PM3	4:00 PM - 5:00 PM	0.05	0.15	0.05			0.05	0.05	0.30
PM4	5:00 PM - 6:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	PM4	5:00 PM - 6:00 PM	0.05	0.05	0.05			0.05	0.05	0.25
PM5	6:00 PM - 7:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	PM5	6:00 PM - 7:00 PM	0.05	0.05	0.05			0.05	0.05	0.05
PM6	7:00 PM - 8:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	PM6	7:00 PM - 8:00 PM	0.05	0.05	0.05			0.05	0.05	0.05

2018 Northbound									2018 Southbound										
Per Mile Toll Rate (\$)									Per Mile Toll Rate (\$)										
By Toll Zone									By Toll Zone										
Time	SR-167			I-405 South			I-405 North			Time	SR-167			I-405 South			I-405 North		
	Period	HOV Discount		8	10	12	14	16	18		Period	HOV Discount		7	9	11	13	15	17
AM1	5:00 AM - 6:00 AM	0.05	0.05	0.05			0.05	0.05	0.05	AM1	5:00 AM - 6:00 AM	0.05	0.05	0.05			0.05	0.05	0.05
AM2	6:00 AM - 7:00 AM	0.05	0.30	0.15			0.05	0.05	0.05	AM2	6:00 AM - 7:00 AM	0.05	0.05	0.05			0.05	0.05	0.30
AM3	7:00 AM - 8:00 AM	0.05	0.20	0.10			0.05	0.05	0.05	AM3	7:00 AM - 8:00 AM	0.05	0.05	0.05			0.05	0.05	0.20
AM4	8:00 AM - 9:00 AM	0.05	0.05	0.05			0.05	0.05	0.05	AM4	8:00 AM - 9:00 AM	0.05	0.05	0.05			0.05	0.05	0.05
AM5	9:00 AM - 10:00 AM	0.05	0.05	0.05			0.05	0.05	0.05	AM5	9:00 AM - 10:00 AM	0.05	0.05	0.05			0.05	0.05	0.05
AM6	10:00 AM - 11:00 AM	0.05	0.05	0.05			0.05	0.05	0.05	AM6	10:00 AM - 11:00 AM	0.05	0.05	0.05			0.05	0.05	0.05
MD1	11:00 AM - 12:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	MD1	11:00 AM - 12:00 PM	0.05	0.05	0.05			0.05	0.05	0.05
MD2	12:00 PM - 1:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	MD2	12:00 PM - 1:00 PM	0.05	0.05	0.05			0.05	0.05	0.05
MD3	1:00 PM - 2:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	MD3	1:00 PM - 2:00 PM	0.05	0.05	0.05			0.05	0.05	0.05
PM1	2:00 PM - 3:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	PM1	2:00 PM - 3:00 PM	0.05	0.20	0.10			0.05	0.05	0.05
PM2	3:00 PM - 4:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	PM2	3:00 PM - 4:00 PM	0.15	0.40	0.25			0.05	0.05	0.05
PM3	4:00 PM - 5:00 PM	0.05	0.05	0.05			0.05	0.05	0.15	PM3	4:00 PM - 5:00 PM	0.15	0.35	0.25			0.05	0.05	0.50
PM4	5:00 PM - 6:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	PM4	5:00 PM - 6:00 PM	0.05	0.05	0.05			0.05	0.05	0.35
PM5	6:00 PM - 7:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	PM5	6:00 PM - 7:00 PM	0.05	0.05	0.05			0.05	0.05	0.05
PM6	7:00 PM - 8:00 PM	0.05	0.05	0.05			0.05	0.05	0.05	PM6	7:00 PM - 8:00 PM	0.05	0.05	0.05			0.05	0.05	0.05

Notes:  
- Tolling assumptions vary from previous studies  
- Results are based on revised 2011 traffic volume estimates.

**Table 1-2-1**  
**Toll Charge Matrix AM1 (5:00 am - 6:00 am)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
**All Toll Rates are Shown in Future Year Dollars**

		2014 Northbound Toll Rate (\$) By Toll Zone						2014 Southbound Toll Rate (\$) By Toll Zone												
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167			
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75			
		Discount \$1.00						Discount \$1.00			Discount \$1.00						Discount \$1.00			
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1
SR 167	2	\$0.07	\$0.60	\$1.12				\$1.40	\$1.56	\$1.89	I-405 North	17	\$0.39	\$0.54	\$0.78			\$1.04	\$1.30	\$1.52
	4		\$0.53	\$1.05				\$1.33	\$1.49	\$1.83		15		\$0.16	\$0.39			\$0.65	\$0.92	\$1.13
	6			\$0.52				\$0.80	\$0.96	\$1.30		13			\$0.24			\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11								
	10											9								
	12											7								
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3						\$0.27	\$0.48	
	18									\$0.34		1								\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone						2018 Southbound Toll Rate (\$) By Toll Zone												
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167			
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36			
		Discount \$1.10						Discount \$1.10			Discount \$1.10						Discount \$1.10			
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78			\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39			\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24			\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11								
	10											9								
	12											7								
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3						\$0.27	\$0.48	
	18									\$0.34		1								\$0.22

NOTE:

- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-2**  
**Toll Charge Matrix AM2 (6:00 am - 7:00 am)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone									2014 Southbound Toll Rate (\$) By Toll Zone									
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167			
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75			
		Discount \$1.00						Discount \$1.00			Discount \$1.00						Discount \$1.00			
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1
SR 167	2	\$0.07	\$0.86	\$1.64				\$1.92	\$2.08	\$2.42	I-405 North	17	\$1.16	\$1.31	\$1.55			\$1.81	\$2.07	\$2.29
	4		\$0.80	\$1.58				\$1.86	\$2.02	\$2.35		15		\$0.16	\$0.39			\$0.65	\$0.92	\$1.13
	6			\$0.78				\$1.06	\$1.22	\$1.56		13			\$0.24			\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11								
	10											9								
	12											7								
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48
	18									\$0.34		1								

		2018 Northbound Toll Rate (\$) By Toll Zone									2018 Southbound Toll Rate (\$) By Toll Zone									
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167			
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36			
		Discount \$1.10						Discount \$1.10			Discount \$1.10						Discount \$1.10			
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1
SR 167	2	\$0.07	\$1.66	\$2.44				\$2.72	\$2.88	\$3.21	I-405 North	17	\$2.31	\$2.47	\$2.70			\$2.96	\$3.23	\$3.44
	4		\$1.59	\$2.37				\$2.65	\$2.81	\$3.15		15		\$0.16	\$0.39			\$0.65	\$0.92	\$1.13
	6			\$0.78				\$1.06	\$1.22	\$1.56		13			\$0.24			\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11								
	10											9								
	12											7								
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48
	18									\$0.34		1								

NOTE:

- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-3**  
**Toll Charge Matrix AM3 (7:00 am - 8:00 am)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone									2014 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75				
		Discount \$1.00						Discount \$1.00			Discount \$1.00						Discount \$1.00				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.77	\$0.93	\$1.16				\$1.42	\$1.69	\$1.90
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone									2018 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36				
		Discount \$1.10						Discount \$1.10			Discount \$1.10						Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$1.13	\$1.65				\$1.93	\$2.09	\$2.42	I-405 North	17	\$1.54	\$1.70	\$1.93				\$2.19	\$2.46	\$2.67
	4		\$1.06	\$1.58				\$1.86	\$2.02	\$2.36		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.52				\$0.80	\$0.96	\$1.30		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

NOTE:

- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-4**  
**Toll Charge Matrix AM4 (8:00 am - 9:00 am)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone						2014 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75				
		Discount \$1.00						Discount \$1.00			Discount \$1.00			Discount \$1.00			Discount \$1.00				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone						2018 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36				
		Discount \$1.10						Discount \$1.10			Discount \$1.10			Discount \$1.10			Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

NOTE:

- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-5**  
**Toll Charge Matrix AM5 (9:00 am - 10:00 am)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone									2014 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75				
		Discount \$1.00						Discount \$1.00			Discount \$1.00			Discount \$1.00			Discount \$1.00				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone									2018 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36				
		Discount \$1.10						Discount \$1.10			Discount \$1.10			Discount \$1.10			Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

**NOTE:**

- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-6**  
**Toll Charge Matrix AM6 (10:00 am - 11:00 am)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone						2014 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75				
		Discount \$1.00						Discount \$1.00			Discount \$1.00			Discount \$1.00			Discount \$1.00				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3								\$0.27	\$0.48
	18									\$0.34		1									\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone						2018 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36				
		Discount \$1.10						Discount \$1.10			Discount \$1.10			Discount \$1.10			Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3								\$0.27	\$0.48
	18									\$0.34		1									\$0.22

**NOTE:**

- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-7**  
**Toll Charge Matrix MD6 (11:00 am - 12:00 pm)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone									2014 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75				
		Discount \$1.00						Discount \$1.00			Discount \$1.00			Discount \$1.00			Discount \$1.00				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone									2018 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36				
		Discount \$1.10						Discount \$1.10			Discount \$1.10			Discount \$1.10			Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

NOTE:

- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-8**  
**Toll Charge Matrix MD2 (12:00 pm - 1:00 pm)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone						2014 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75				
		Discount \$1.00						Discount \$1.00			Discount \$1.00			Discount \$1.00			Discount \$1.00				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone						2018 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36				
		Discount \$1.10						Discount \$1.10			Discount \$1.10			Discount \$1.10			Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

- NOTE:
- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
  - Tolling assumptions vary from previous study results.
  - Results are based on revised 2011 traffic volume estimates.
  - Numbers do not include reductions for ramp-up effect.
  - HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-9**  
**Toll Charge Matrix MD3 (1:00 pm - 2:00 pm)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone						2014 Southbound Toll Rate (\$) By Toll Zone												
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167			
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75			
		Discount \$1.00						Discount \$1.00			Discount \$1.00			Discount \$1.00			Discount \$1.00			
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78			\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39			\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24			\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11								
	10											9								
	12											7								
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48
	18									\$0.34		1								\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone						2018 Southbound Toll Rate (\$) By Toll Zone												
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167			
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36			
		Discount \$1.10						Discount \$1.10			Discount \$1.10			Discount \$1.10			Discount \$1.10			
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78			\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39			\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24			\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11								
	10											9								
	12											7								
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48
	18									\$0.34		1								\$0.22

- NOTE:
- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
  - Tolling assumptions vary from previous study results.
  - Results are based on revised 2011 traffic volume estimates.
  - Numbers do not include reductions for ramp-up effect.
  - HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-10**  
**Toll Charge Matrix PM1 (2:00 pm - 3:00 pm)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone									2014 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75				
		Discount \$1.00						Discount \$1.00			Discount \$1.00			Discount \$1.00			Discount \$1.00				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone									2018 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36				
		Discount \$1.10						Discount \$1.10			Discount \$1.10			Discount \$1.10			Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.30	\$2.36	\$2.57
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.91	\$1.97	\$2.19
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.76	\$1.82	\$2.03
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.52	\$1.58	\$1.80
	16								\$0.16	\$0.50		3							\$1.06	\$1.28	
	18									\$0.34		1									\$0.22

- NOTE:
- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
  - Tolling assumptions vary from previous study results.
  - Results are based on revised 2011 traffic volume estimates.
  - Numbers do not include reductions for ramp-up effect.
  - HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-11**  
**Toll Charge Matrix PM2 (3:00 pm - 4:00 pm)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone						2014 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75				
		Discount \$1.00						Discount \$1.00			Discount \$1.00			Discount \$1.00			Discount \$1.00				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.83	\$2.05
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$1.45	\$1.66
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$1.29	\$1.51
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$1.06	\$1.27
	16								\$0.16	\$0.50		3							\$0.80	\$1.01	
	18									\$0.34		1									\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone						2018 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36				
		Discount \$1.10						Discount \$1.10			Discount \$1.10			Discount \$1.10			Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$2.08	\$4.20	\$4.84
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$1.69	\$3.81	\$4.46
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$1.54	\$3.66	\$4.30
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$1.30	\$3.42	\$4.07
	16								\$0.16	\$0.50		3							\$2.12	\$2.77	
	18									\$0.34		1									\$0.65

**NOTE:**

- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-12**  
**Toll Charge Matrix PM3 (4:00 pm - 5:00 pm)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone									2014 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75				
		Discount \$1.00						Discount \$1.00			Discount \$1.00			Discount \$1.00			Discount \$1.00				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$2.31	\$2.47	\$2.70				\$2.96	\$3.76	\$3.97
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$1.45	\$1.66
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$1.29	\$1.51
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$1.06	\$1.27
	16								\$0.16	\$0.50		3								\$0.80	\$1.01
	18									\$0.34		1									\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone									2018 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36				
		Discount \$1.10						Discount \$1.10			Discount \$1.10			Discount \$1.10			Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$2.04	I-405 North	17	\$3.85	\$4.01	\$4.24				\$5.54	\$7.40	\$8.04
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.97		15		\$0.16	\$0.39				\$1.69	\$3.55	\$4.19
	6			\$0.26				\$0.54	\$0.70	\$1.71		13			\$0.24				\$1.54	\$3.39	\$4.04
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$1.45	SR 167	5							\$1.30	\$3.16	\$3.80
	16								\$0.16	\$1.17		3								\$1.86	\$2.50
	18									\$1.01		1									\$0.65

NOTE:

- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-13**  
**Toll Charge Matrix PM4 (5:00 pm - 6:00 pm)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone						2014 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75				
		Discount \$1.00						Discount \$1.00			Discount \$1.00			Discount \$1.00			Discount \$1.00				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$1.93	\$2.08	\$2.32				\$2.58	\$2.84	\$3.06
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3								\$0.27	\$0.48
	18									\$0.34		1									\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone						2018 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36				
		Discount \$1.10						Discount \$1.10			Discount \$1.10			Discount \$1.10			Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$2.70	\$2.85	\$3.09				\$3.35	\$3.61	\$3.83
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3								\$0.27	\$0.48
	18									\$0.34		1									\$0.22

- NOTE:
- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
  - Tolling assumptions vary from previous study results.
  - Results are based on revised 2011 traffic volume estimates.
  - Numbers do not include reductions for ramp-up effect.
  - HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-14**  
**Toll Charge Matrix PM5 (6:00 pm - 7:00 pm)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone						2014 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75				
		Discount \$1.00						Discount \$1.00			Discount \$1.00			Discount \$1.00			Discount \$1.00				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone						2018 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36				
		Discount \$1.10						Discount \$1.10			Discount \$1.10			Discount \$1.10			Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

NOTE:

- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-2-15**  
**Toll Charge Matrix PM6 (7:00 pm - 8:00 pm)**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

		2014 Northbound Toll Rate (\$) By Toll Zone						2014 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.75						Minimum Toll - \$0.75			Minimum Toll - \$0.75						Minimum Toll - \$0.75				
		Discount \$1.00						Discount \$1.00			Discount \$1.00			Discount \$1.00			Discount \$1.00				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

		2018 Northbound Toll Rate (\$) By Toll Zone						2018 Southbound Toll Rate (\$) By Toll Zone													
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36						Minimum Toll - \$1.36			Minimum Toll - \$1.36						Minimum Toll - \$1.36				
		Discount \$1.10						Discount \$1.10			Discount \$1.10			Discount \$1.10			Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.07	\$0.33	\$0.59				\$0.87	\$1.03	\$1.37	I-405 North	17	\$0.39	\$0.54	\$0.78				\$1.04	\$1.30	\$1.52
	4		\$0.27	\$0.53				\$0.81	\$0.97	\$1.30		15		\$0.16	\$0.39				\$0.65	\$0.92	\$1.13
	6			\$0.26				\$0.54	\$0.70	\$1.04		13			\$0.24				\$0.50	\$0.76	\$0.98
I-405 South	8										I-405 South	11									
	10											9									
	12											7									
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.74
	16								\$0.16	\$0.50		3							\$0.27	\$0.48	
	18									\$0.34		1									\$0.22

NOTE:

- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- HOV2 and HOV3+ vehicles equipped with an electronic toll transponder will receive a discount of \$0.50 in 2014 and \$0.55 in 2018 on each major segment (SR167, I-405 North).

**Table 1-3-1  
2014 Estimated Traffic and Gross Toll Revenue- I-405 North  
I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and  
Photo Billing Scenario - Traffic Optimization  
All Revenue Values in Future Dollars**

Period	Northbound Direction					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	533	240	773	\$0.54	\$414	\$104,500
AM Peak (7:00 - 9:00 am)	1,192	386	1,578	\$0.46	719	\$181,400
AM Post Shoulder (9:00 - 11:00 am)	680	285	965	\$0.50	479	\$120,900
Midday (11:00 - 2:00 pm)	1,343	641	1,984	\$0.51	1,003	\$253,100
PM Pre Shoulder (2:00 - 3:00 pm)	1,015	819	1,834	\$0.56	1,031	\$260,100
PM Peak (3:00 - 6:00 pm)	5,015	4,714	9,729	\$0.59	5,769	\$1,455,500
PM Post Shoulder (6:00 - 8:00 pm)	1,427	556	1,983	\$0.47	941	\$237,400
Total Day Time (5:00 am - 8:00 pm)	11,205	7,641	18,846	\$0.55	\$10,356	\$2,612,900

Period	Southbound Direction					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	1,667	2,439	4,106	\$0.94	\$3,853	\$972,100
AM Peak (7:00 - 9:00 am)	2,864	3,732	6,596	\$0.71	4,680	\$1,180,800
AM Post Shoulder (9:00 - 11:00 am)	1,489	873	2,362	\$0.52	1,239	\$312,600
Midday (11:00 - 2:00 pm)	1,618	631	2,249	\$0.50	1,117	\$281,800
PM Pre Shoulder (2:00 - 3:00 pm)	784	381	1,165	\$0.51	595	\$150,100
PM Peak (3:00 - 6:00 pm)	3,400	3,120	6,520	\$1.34	8,769	\$2,212,400
PM Post Shoulder (6:00 - 8:00 pm)	936	531	1,467	\$0.53	779	\$196,500
Total Day Time (5:00 am - 8:00 pm)	12,758	11,707	24,465	\$0.86	\$21,032	\$5,306,300

Period	Both Directions					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	2,200	2,679	4,879	\$0.87	\$4,267	\$1,076,600
AM Peak (7:00 - 9:00 am)	4,056	4,118	8,174	\$0.66	\$5,399	\$1,362,200
AM Post Shoulder (9:00 - 11:00 am)	2,169	1,158	3,327	\$0.52	\$1,718	\$433,500
Midday (11:00 - 2:00 pm)	2,961	1,272	4,233	\$0.50	\$2,120	\$534,900
PM Pre Shoulder (2:00 - 3:00 pm)	1,799	1,200	2,999	\$0.54	\$1,626	\$410,200
PM Peak (3:00 - 6:00 pm)	8,415	7,834	16,249	\$0.89	\$14,538	\$3,667,900
PM Post Shoulder (6:00 - 8:00 pm)	2,363	1,087	3,450	\$0.50	\$1,720	\$433,900
Total Day Time (5:00 am - 8:00 pm)	23,963	19,348	43,311	\$0.72	\$31,388	\$7,919,200

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount Traffic includes HOV2 and HVO3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 1-3-2  
2018 Estimated Traffic and Gross Toll Revenue- I-405 North  
I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and  
Photo Billing Scenario - Traffic Optimization  
All Revenue Values in Future Dollars**

Period	Northbound Direction					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	548	257	805	\$0.60	\$483	\$121,900
AM Peak (7:00 - 9:00 am)	1,397	465	1,862	\$0.50	932	\$235,100
AM Post Shoulder (9:00 - 11:00 am)	762	307	1,069	\$0.53	571	\$144,100
Midday (11:00 - 2:00 pm)	1,430	750	2,180	\$0.56	1,214	\$306,300
PM Pre Shoulder (2:00 - 3:00 pm)	1,097	984	2,081	\$0.62	1,297	\$327,200
PM Peak (3:00 - 6:00 pm)	5,260	5,510	10,770	\$0.74	7,946	\$2,004,800
PM Post Shoulder (6:00 - 8:00 pm)	1,510	636	2,146	\$0.52	1,125	\$283,800
Total Day Time (5:00 am - 8:00 pm)	12,004	8,909	20,913	\$0.65	\$13,568	\$3,423,200

Period	Southbound Direction					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	1,639	2,755	4,394	\$1.41	\$6,183	\$1,560,000
AM Peak (7:00 - 9:00 am)	2,799	4,396	7,195	\$0.95	6,833	\$1,724,000
AM Post Shoulder (9:00 - 11:00 am)	1,548	1,216	2,764	\$0.61	1,673	\$422,100
Midday (11:00 - 2:00 pm)	1,531	725	2,256	\$0.55	1,238	\$312,300
PM Pre Shoulder (2:00 - 3:00 pm)	731	506	1,237	\$0.59	726	\$183,200
PM Peak (3:00 - 6:00 pm)	3,342	3,357	6,699	\$1.89	12,639	\$3,188,800
PM Post Shoulder (6:00 - 8:00 pm)	850	659	1,509	\$0.62	931	\$234,900
Total Day Time (5:00 am - 8:00 pm)	12,440	13,614	26,054	\$1.16	\$30,223	\$7,625,300

Period	Both Directions					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	2,187	3,012	5,199	\$1.28	\$6,666	\$1,681,900
AM Peak (7:00 - 9:00 am)	4,196	4,861	9,057	\$0.86	\$7,765	\$1,959,100
AM Post Shoulder (9:00 - 11:00 am)	2,310	1,523	3,833	\$0.59	\$2,244	\$566,200
Midday (11:00 - 2:00 pm)	2,961	1,475	4,436	\$0.55	\$2,452	\$618,600
PM Pre Shoulder (2:00 - 3:00 pm)	1,828	1,490	3,318	\$0.61	\$2,023	\$510,400
PM Peak (3:00 - 6:00 pm)	8,602	8,867	17,469	\$1.18	\$20,585	\$5,193,600
PM Post Shoulder (6:00 - 8:00 pm)	2,360	1,295	3,655	\$0.56	\$2,056	\$518,700
Total Day Time (5:00 am - 8:00 pm)	24,444	22,523	46,967	\$0.93	\$43,791	\$11,048,500

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount Traffic includes HOV2 and HVO3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 1-4-1**  
**2014 Estimated Traffic and Gross Toll Revenue - I-405 South**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Revenue Values in Future Dollars**

Northbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	0	0	0	\$0	\$0	\$0
AM Peak (7:00 - 9:00 am)	0	0	0	0	0	\$0
AM Post Shoulder (9:00 - 11:00 am)	0	0	0	0	0	\$0
Midday (11:00 - 2:00 pm)	0	0	0	0	0	\$0
PM Pre Shoulder (2:00 - 3:00 pm)	0	0	0	0	0	\$0
PM Peak (3:00 - 6:00 pm)	0	0	0	0	0	\$0
PM Post Shoulder (6:00 - 8:00 pm)	0	0	0	0	0	\$0
Total Day Time (5:00 am - 8:00 pm)	0	0	0	\$0	\$0	\$0

Southbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	0	0	0	\$0	\$0	\$0
AM Peak (7:00 - 9:00 am)	0	0	0	0	0	\$0
AM Post Shoulder (9:00 - 11:00 am)	0	0	0	0	0	\$0
Midday (11:00 - 2:00 pm)	0	0	0	0	0	\$0
PM Pre Shoulder (2:00 - 3:00 pm)	0	0	0	0	0	\$0
PM Peak (3:00 - 6:00 pm)	0	0	0	0	0	\$0
PM Post Shoulder (6:00 - 8:00 pm)	0	0	0	0	0	\$0
Total Day Time (5:00 am - 8:00 pm)	0	0	0	\$0	\$0	\$0

Both Directions						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	0	0	0	\$0	\$0	\$0
AM Peak (7:00 - 9:00 am)	0	0	0	0	\$0	\$0
AM Post Shoulder (9:00 - 11:00 am)	0	0	0	0	\$0	\$0
Midday (11:00 - 2:00 pm)	0	0	0	0	\$0	\$0
PM Pre Shoulder (2:00 - 3:00 pm)	0	0	0	0	\$0	\$0
PM Peak (3:00 - 6:00 pm)	0	0	0	0	\$0	\$0
PM Post Shoulder (6:00 - 8:00 pm)	0	0	0	0	\$0	\$0
Total Day Time (5:00 am - 8:00 pm)	0	0	0	\$0	\$0	\$0

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount Traffic includes HOV2 and HVO3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 1-4-2  
2018 Estimated Traffic and Gross Toll Revenue- I-405 South  
I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and  
Photo Billing Scenario - Traffic Optimization  
All Revenue Values in Future Dollars**

Northbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	0	0	0	\$0	\$0	\$0
AM Peak (7:00 - 9:00 am)	0	0	0	0	0	\$0
AM Post Shoulder (9:00 - 11:00 am)	0	0	0	0	0	\$0
Midday (11:00 - 2:00 pm)	0	0	0	0	0	\$0
PM Pre Shoulder (2:00 - 3:00 pm)	0	0	0	0	0	\$0
PM Peak (3:00 - 6:00 pm)	0	0	0	0	0	\$0
PM Post Shoulder (6:00 - 8:00 pm)	0	0	0	0	0	\$0
Total Day Time (5:00 am - 8:00 pm)	0	0	0	\$0	\$0	\$0

Southbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	0	0	0	\$0	\$0	\$0
AM Peak (7:00 - 9:00 am)	0	0	0	0	0	\$0
AM Post Shoulder (9:00 - 11:00 am)	0	0	0	0	0	\$0
Midday (11:00 - 2:00 pm)	0	0	0	0	0	\$0
PM Pre Shoulder (2:00 - 3:00 pm)	0	0	0	0	0	\$0
PM Peak (3:00 - 6:00 pm)	0	0	0	0	0	\$0
PM Post Shoulder (6:00 - 8:00 pm)	0	0	0	0	0	\$0
Total Day Time (5:00 am - 8:00 pm)	0	0	0	\$0	\$0	\$0

Both Directions						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	0	0	0	\$0	\$0	\$0
AM Peak (7:00 - 9:00 am)	0	0	0	0	\$0	\$0
AM Post Shoulder (9:00 - 11:00 am)	0	0	0	0	\$0	\$0
Midday (11:00 - 2:00 pm)	0	0	0	0	\$0	\$0
PM Pre Shoulder (2:00 - 3:00 pm)	0	0	0	0	\$0	\$0
PM Peak (3:00 - 6:00 pm)	0	0	0	0	\$0	\$0
PM Post Shoulder (6:00 - 8:00 pm)	0	0	0	0	\$0	\$0
Total Day Time (5:00 am - 8:00 pm)	0	0	0	\$0	\$0	\$0

**Notes:**

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount Traffic includes HOV2 and HVO3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 1-5-1**  
**2014 Estimated Traffic and Gross Toll Revenue - SR 167**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Revenue Values in Future Dollars**

Northbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	1,308	1,940	3,248	\$1.05	\$3,409	\$860,100
AM Peak (7:00 - 9:00 am)	1,201	1,660	2,861	\$0.63	1,802	\$454,600
AM Post Shoulder (9:00 - 11:00 am)	364	296	660	\$0.59	388	\$97,900
Midday (11:00 - 2:00 pm)	417	399	816	\$0.63	512	\$129,200
PM Pre Shoulder (2:00 - 3:00 pm)	216	416	632	\$0.66	419	\$105,700
PM Peak (3:00 - 6:00 pm)	1,098	1,027	2,125	\$0.58	1,230	\$310,300
PM Post Shoulder (6:00 - 8:00 pm)	142	182	324	\$0.69	224	\$56,500
Total Day Time (5:00 am - 8:00 pm)	4,746	5,920	10,666	\$0.75	\$7,984	\$2,014,300

Southbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	198	187	385	\$0.63	\$243	\$61,300
AM Peak (7:00 - 9:00 am)	387	250	637	\$0.56	356	\$89,800
AM Post Shoulder (9:00 - 11:00 am)	286	204	490	\$0.58	285	\$71,900
Midday (11:00 - 2:00 pm)	1,306	655	1,961	\$0.51	995	\$251,000
PM Pre Shoulder (2:00 - 3:00 pm)	986	806	1,792	\$0.57	1,025	\$258,600
PM Peak (3:00 - 6:00 pm)	3,228	2,245	5,473	\$0.75	4,110	\$1,037,000
PM Post Shoulder (6:00 - 8:00 pm)	711	358	1,069	\$0.52	551	\$139,000
Total Day Time (5:00 am - 8:00 pm)	7,102	4,705	11,807	\$0.64	\$7,565	\$1,908,600

Both Directions						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	1,506	2,127	3,633	\$1.01	\$3,652	\$921,400
AM Peak (7:00 - 9:00 am)	1,588	1,910	3,498	\$0.62	\$2,158	\$544,400
AM Post Shoulder (9:00 - 11:00 am)	650	500	1,150	\$0.59	\$673	\$169,800
Midday (11:00 - 2:00 pm)	1,723	1,054	2,777	\$0.54	\$1,507	\$380,200
PM Pre Shoulder (2:00 - 3:00 pm)	1,202	1,222	2,424	\$0.60	\$1,444	\$364,300
PM Peak (3:00 - 6:00 pm)	4,326	3,272	7,598	\$0.70	\$5,340	\$1,347,300
PM Post Shoulder (6:00 - 8:00 pm)	853	540	1,393	\$0.56	\$775	\$195,500
Total Day Time (5:00 am - 8:00 pm)	11,848	10,625	22,473	\$0.69	\$15,549	\$3,922,900

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount Traffic includes HOV2 and HVO3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 1-5-2**  
**2018 Estimated Traffic and Gross Toll Revenue - SR 167**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Revenue Values in Future Dollars**

Period	Northbound Direction					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	1,234	2,442	3,676	\$1.36	\$4,998	\$1,261,000
AM Peak (7:00 - 9:00 am)	1,160	1,941	3,101	\$1.07	3,326	\$839,100
AM Post Shoulder (9:00 - 11:00 am)	374	410	784	\$0.69	538	\$135,700
Midday (11:00 - 2:00 pm)	445	541	986	\$0.71	702	\$177,100
PM Pre Shoulder (2:00 - 3:00 pm)	218	617	835	\$0.78	648	\$163,500
PM Peak (3:00 - 6:00 pm)	1,330	1,570	2,900	\$0.67	1,942	\$490,000
PM Post Shoulder (6:00 - 8:00 pm)	188	195	383	\$0.72	276	\$69,600
Total Day Time (5:00 am - 8:00 pm)	4,949	7,716	12,665	\$0.98	\$12,430	\$3,136,000

Period	Southbound Direction					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	236	198	434	\$0.68	\$297	\$74,900
AM Peak (7:00 - 9:00 am)	480	268	748	\$0.59	442	\$111,500
AM Post Shoulder (9:00 - 11:00 am)	341	226	567	\$0.63	356	\$89,800
Midday (11:00 - 2:00 pm)	1,520	841	2,361	\$0.57	1,353	\$341,400
PM Pre Shoulder (2:00 - 3:00 pm)	1,055	891	1,946	\$1.20	2,342	\$590,900
PM Peak (3:00 - 6:00 pm)	3,328	2,445	5,773	\$1.89	10,912	\$2,753,100
PM Post Shoulder (6:00 - 8:00 pm)	881	443	1,324	\$0.56	747	\$188,500
Total Day Time (5:00 am - 8:00 pm)	7,841	5,312	13,153	\$1.25	\$16,449	\$4,150,100

Period	Both Directions					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	1,470	2,640	4,110	\$1.29	\$5,295	\$1,335,900
AM Peak (7:00 - 9:00 am)	1,640	2,209	3,849	\$0.98	\$3,768	\$950,600
AM Post Shoulder (9:00 - 11:00 am)	715	636	1,351	\$0.66	\$894	\$225,500
Midday (11:00 - 2:00 pm)	1,965	1,382	3,347	\$0.61	\$2,055	\$518,500
PM Pre Shoulder (2:00 - 3:00 pm)	1,273	1,508	2,781	\$1.08	\$2,990	\$754,400
PM Peak (3:00 - 6:00 pm)	4,658	4,015	8,673	\$1.48	\$12,854	\$3,243,100
PM Post Shoulder (6:00 - 8:00 pm)	1,069	638	1,707	\$0.60	\$1,023	\$258,100
Total Day Time (5:00 am - 8:00 pm)	12,790	13,028	25,818	\$1.12	\$28,879	\$7,286,100

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount Traffic includes HOV2 and HVO3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 1-6-1**  
**2014 Estimated Traffic and Gross Toll Revenue - Total ETL System**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Revenue Values in Future Dollars**

Period	Northbound Direction					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	1,840	2,180	4,020	\$0.95	\$3,823	\$964,500
AM Peak (7:00 - 9:00 am)	2,393	2,046	4,439	\$0.57	\$2,521	\$636,000
AM Post Shoulder (9:00 - 11:00 am)	1,044	581	1,625	\$0.53	\$868	\$219,000
Midday (11:00 - 2:00 pm)	1,759	1,041	2,800	\$0.54	\$1,515	\$382,200
PM Pre Shoulder (2:00 - 3:00 pm)	1,232	1,234	2,466	\$0.59	\$1,449	\$365,600
PM Peak (3:00 - 6:00 pm)	6,113	5,741	11,854	\$0.59	\$7,000	\$1,766,100
PM Post Shoulder (6:00 - 8:00 pm)	1,568	738	2,306	\$0.51	\$1,165	\$293,900
Total Day Time (5:00 am - 8:00 pm)	15,949	13,561	29,510	\$0.62	\$18,341	\$4,627,300

Period	Southbound Direction					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	1,865	2,626	4,491	\$0.91	\$4,096	\$1,033,400
AM Peak (7:00 - 9:00 am)	3,251	3,983	7,234	\$0.70	\$5,036	\$1,270,600
AM Post Shoulder (9:00 - 11:00 am)	1,774	1,076	2,850	\$0.54	\$1,525	\$384,800
Midday (11:00 - 2:00 pm)	2,924	1,286	4,210	\$0.50	\$2,112	\$532,900
PM Pre Shoulder (2:00 - 3:00 pm)	1,770	1,187	2,957	\$0.55	\$1,620	\$408,700
PM Peak (3:00 - 6:00 pm)	6,628	5,365	11,993	\$1.07	\$12,879	\$3,249,400
PM Post Shoulder (6:00 - 8:00 pm)	1,646	889	2,535	\$0.52	\$1,330	\$335,600
Total Day Time (5:00 am - 8:00 pm)	19,858	16,412	36,270	\$0.79	\$28,598	\$7,215,400

Period	Both Directions					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	3,705	4,806	8,511	\$0.93	\$7,919	\$1,997,900
AM Peak (7:00 - 9:00 am)	5,644	6,029	11,673	\$0.65	\$7,557	\$1,906,600
AM Post Shoulder (9:00 - 11:00 am)	2,818	1,657	4,475	\$0.53	\$2,393	\$603,800
Midday (11:00 - 2:00 pm)	4,683	2,327	7,010	\$0.52	\$3,627	\$915,100
PM Pre Shoulder (2:00 - 3:00 pm)	3,002	2,421	5,423	\$0.57	\$3,069	\$774,300
PM Peak (3:00 - 6:00 pm)	12,741	11,106	23,847	\$0.83	\$19,879	\$5,015,500
PM Post Shoulder (6:00 - 8:00 pm)	3,214	1,627	4,841	\$0.52	\$2,495	\$629,500
Total Day Time (5:00 am - 8:00 pm)	35,807	29,973	65,780	\$0.71	\$46,939	\$11,842,700

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount Traffic includes HOV2 and HVO3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 1-6-2  
2018 Estimated Traffic and Gross Toll Revenue - Total ETL System  
I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and  
Photo Billing Scenario - Traffic Optimization  
All Revenue Values in Future Dollars**

Period	Northbound Direction					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	1,781	2,699	4,480	\$1.22	\$5,481	\$1,382,900
AM Peak (7:00 - 9:00 am)	2,557	2,406	4,963	\$0.86	\$4,258	\$1,074,300
AM Post Shoulder (9:00 - 11:00 am)	1,137	716	1,853	\$0.60	\$1,109	\$279,800
Midday (11:00 - 2:00 pm)	1,875	1,290	3,165	\$0.61	\$1,916	\$483,400
PM Pre Shoulder (2:00 - 3:00 pm)	1,315	1,602	2,917	\$0.67	\$1,946	\$491,000
PM Peak (3:00 - 6:00 pm)	6,589	7,080	13,669	\$0.72	\$9,888	\$2,494,700
PM Post Shoulder (6:00 - 8:00 pm)	1,698	831	2,529	\$0.55	\$1,402	\$353,700
<b>Total Day Time (5:00 am - 8:00 pm)</b>	<b>16,952</b>	<b>16,624</b>	<b>33,576</b>	<b>\$0.77</b>	<b>\$26,000</b>	<b>\$6,559,800</b>

Period	Southbound Direction					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	1,876	2,954	4,830	\$1.34	\$6,479	\$1,634,700
AM Peak (7:00 - 9:00 am)	3,279	4,663	7,942	\$0.92	\$7,275	\$1,835,500
AM Post Shoulder (9:00 - 11:00 am)	1,888	1,442	3,330	\$0.61	\$2,028	\$511,700
Midday (11:00 - 2:00 pm)	3,051	1,567	4,618	\$0.56	\$2,590	\$653,500
PM Pre Shoulder (2:00 - 3:00 pm)	1,785	1,397	3,182	\$0.96	\$3,068	\$774,100
PM Peak (3:00 - 6:00 pm)	6,670	5,802	12,472	\$1.89	\$23,551	\$5,941,900
PM Post Shoulder (6:00 - 8:00 pm)	1,730	1,102	2,832	\$0.59	\$1,678	\$423,400
<b>Total Day Time (5:00 am - 8:00 pm)</b>	<b>20,279</b>	<b>18,927</b>	<b>39,206</b>	<b>\$1.19</b>	<b>\$46,669</b>	<b>\$11,774,800</b>

Period	Both Directions					
	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated Annual Gross Toll Revenue
	Discount (incl. Toll Free)	Tolled	Total			
AM Pre Shoulder (5:00 - 7:00 am)	3,657	5,653	9,310	\$1.28	\$11,960	\$3,017,600
AM Peak (7:00 - 9:00 am)	5,836	7,069	12,905	\$0.89	\$11,533	\$2,909,800
AM Post Shoulder (9:00 - 11:00 am)	3,025	2,158	5,183	\$0.61	\$3,137	\$791,500
Midday (11:00 - 2:00 pm)	4,926	2,857	7,783	\$0.58	\$4,506	\$1,136,900
PM Pre Shoulder (2:00 - 3:00 pm)	3,100	2,999	6,099	\$0.82	\$5,014	\$1,265,100
PM Peak (3:00 - 6:00 pm)	13,259	12,882	26,141	\$1.28	\$33,439	\$8,436,600
PM Post Shoulder (6:00 - 8:00 pm)	3,428	1,933	5,361	\$0.57	\$3,080	\$777,100
<b>Total Day Time (5:00 am - 8:00 pm)</b>	<b>37,231</b>	<b>35,551</b>	<b>72,782</b>	<b>\$1.00</b>	<b>\$72,669</b>	<b>\$18,334,600</b>

**Notes:**

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount Traffic includes HOV2 and HVO3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 1-7**  
**Estimated Average Weekday Gross Toll Revenue per Segment**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Revenue Values in Future Year Dollars**

**2014**

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	\$3,409	\$0	\$414	\$3,823	\$243	\$0	\$3,853	\$4,096
AM Peak (7:00 - 9:00 am)	\$1,802	\$0	\$719	\$2,521	\$356	\$0	\$4,680	\$5,036
AM Post Shoulder (9:00 - 11:00 am)	\$388	\$0	\$479	\$868	\$285	\$0	\$1,239	\$1,525
Midday (11:00 - 2:00 pm)	\$512	\$0	\$1,003	\$1,515	\$995	\$0	\$1,117	\$2,112
PM Pre Shoulder (2:00 - 3:00 pm)	\$419	\$0	\$1,031	\$1,449	\$1,025	\$0	\$595	\$1,620
PM Peak (3:00 - 6:00 pm)	\$1,230	\$0	\$5,769	\$7,000	\$4,110	\$0	\$8,769	\$12,879
PM Post Shoulder (6:00 - 8:00 pm)	\$224	\$0	\$941	\$1,165	\$551	\$0	\$779	\$1,330
Total Day Time (5:00 am - 8:00 pm)	\$7,983	\$0	\$10,357	\$18,341	\$7,565	\$0	\$21,032	\$28,597

**2018**

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	\$4,998	\$0	\$483	\$5,481	\$297	\$0	\$6,183	\$6,479
AM Peak (7:00 - 9:00 am)	\$3,326	\$0	\$932	\$4,258	\$442	\$0	\$6,833	\$7,275
AM Post Shoulder (9:00 - 11:00 am)	\$538	\$0	\$571	\$1,109	\$356	\$0	\$1,673	\$2,028
Midday (11:00 - 2:00 pm)	\$702	\$0	\$1,214	\$1,916	\$1,353	\$0	\$1,238	\$2,590
PM Pre Shoulder (2:00 - 3:00 pm)	\$648	\$0	\$1,297	\$1,946	\$2,342	\$0	\$726	\$3,068
PM Peak (3:00 - 6:00 pm)	\$1,942	\$0	\$7,946	\$9,888	\$10,912	\$0	\$12,639	\$23,551
PM Post Shoulder (6:00 - 8:00 pm)	\$276	\$0	\$1,125	\$1,402	\$747	\$0	\$931	\$1,678
Total Day Time (5:00 am - 8:00 pm)	\$12,430	\$0	\$13,568	\$25,998	\$16,448	\$0	\$30,221	\$46,669

Notes:

Tolling assumptions vary from previous study results.

Results are based on revised 2011 traffic volume estimates.

Numbers do not include reductions for ramp-up effect.

Discount include HOV2 and HVO3+ vehicles only.

**Table 1-8**  
**Estimated Average Weekday Total Transactions per Segment**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**

**2014**

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	7,692	-	1,702	9,394	807	-	12,817	13,624
AM Peak (7:00 - 9:00 am)	4,014	-	2,868	6,882	1,131	-	9,453	10,584
AM Post Shoulder (9:00 - 11:00 am)	1,043	-	1,808	2,852	960	-	3,145	4,104
Midday (11:00 - 2:00 pm)	2,224	-	5,394	7,619	5,570	-	4,267	9,837
PM Pre Shoulder (2:00 - 3:00 pm)	1,535	-	5,576	7,111	3,631	-	3,538	7,169
PM Peak (3:00 - 6:00 pm)	3,292	-	16,298	19,591	9,297	-	10,681	19,978
PM Post Shoulder (6:00 - 8:00 pm)	2,092	-	3,151	5,243	1,699	-	2,048	3,747
Total Day Time (5:00 am - 8:00 pm)	21,892	-	36,799	58,691	23,095	-	45,949	69,044

**2018**

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	8,089	-	1,841	9,930	901	-	13,777	14,678
AM Peak (7:00 - 9:00 am)	4,462	-	3,298	7,760	1,355	-	10,510	11,866
AM Post Shoulder (9:00 - 11:00 am)	1,144	-	1,978	3,123	1,119	-	3,297	4,416
Midday (11:00 - 2:00 pm)	3,007	-	6,164	9,172	6,391	-	4,457	10,848
PM Pre Shoulder (2:00 - 3:00 pm)	2,049	-	6,195	8,245	3,506	-	3,901	7,406
PM Peak (3:00 - 6:00 pm)	4,427	-	17,550	21,976	9,884	-	11,056	20,940
PM Post Shoulder (6:00 - 8:00 pm)	2,956	-	3,341	6,297	2,053	-	1,924	3,977
Total Day Time (5:00 am - 8:00 pm)	26,134	-	40,368	66,502	25,210	-	48,921	74,132

Notes:

Tolling assumptions vary from previous study results.

Results are based on revised 2011 traffic volume estimates.

Numbers do not include reductions for ramp-up effect.

Discount include HOV2 and HVO3+ vehicles only.

Table 1-9-1

**Estimated Average Weekday Non Discount Tolled Transactions per Segment**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**

2014

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	4,302	0	406	4,709	301	0	5,300	5,601
AM Peak (7:00 - 9:00 am)	3,793	0	745	4,539	399	0	7,936	8,335
AM Post Shoulder (9:00 - 11:00 am)	539	0	488	1,027	319	0	1,755	2,074
Midday (11:00 - 2:00 pm)	706	0	1,209	1,915	1,305	0	1,065	2,371
PM Pre Shoulder (2:00 - 3:00 pm)	903	0	1,810	2,714	1,805	0	784	2,590
PM Peak (3:00 - 6:00 pm)	2,211	0	9,897	12,107	4,782	0	6,509	11,291
PM Post Shoulder (6:00 - 8:00 pm)	309	0	1,067	1,377	642	0	999	1,641
Total Day Time (5:00 am - 8:00 pm)	12,764	0	15,623	28,387	9,554	0	24,350	33,903

2018

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	5,417	0	438	5,855	321	0	5,892	6,212
AM Peak (7:00 - 9:00 am)	4,283	0	914	5,197	426	0	9,356	9,781
AM Post Shoulder (9:00 - 11:00 am)	787	0	533	1,319	355	0	2,535	2,890
Midday (11:00 - 2:00 pm)	1,035	0	1,484	2,519	1,739	0	1,306	3,045
PM Pre Shoulder (2:00 - 3:00 pm)	1,355	0	2,179	3,534	1,833	0	1,091	2,924
PM Peak (3:00 - 6:00 pm)	3,416	0	11,292	14,708	4,938	0	7,132	12,070
PM Post Shoulder (6:00 - 8:00 pm)	333	0	1,265	1,598	834	0	1,310	2,145
Total Day Time (5:00 am - 8:00 pm)	16,625	0	18,105	34,730	10,445	0	28,622	39,067

## Notes:

Tolling assumptions vary from previous study results.

Results are based on revised 2011 traffic volume estimates.

Numbers do not include reductions for ramp-up effect.

Discount include HOV2 and HVO3+ vehicles only.

Table 1-10

**Estimated Average Weekday Tolled Discount Transactions per Segment**  
**I-405 Express Toll Lanes - Option 1 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**

2014

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	2,541	0	984	3,525	370	0	3,095	3,465
AM Peak (7:00 - 9:00 am)	2,384	0	2,326	4,711	793	0	4,852	5,645
AM Post Shoulder (9:00 - 11:00 am)	678	0	1,294	1,972	619	0	2,409	3,028
Midday (11:00 - 2:00 pm)	794	0	2,643	3,437	2,642	0	2,740	5,382
PM Pre Shoulder (2:00 - 3:00 pm)	406	0	1,943	2,348	1,866	0	1,315	3,180
PM Peak (3:00 - 6:00 pm)	2,035	0	9,221	11,257	5,837	0	5,607	11,443
PM Post Shoulder (6:00 - 8:00 pm)	290	0	2,765	3,054	1,415	0	1,583	2,998
Total Day Time (5:00 am - 8:00 pm)	9,128	0	21,176	30,304	13,541	0	21,600	35,141

2018

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	2,473	0	1,007	3,480	435	0	2,944	3,379
AM Peak (7:00 - 9:00 am)	2,268	0	2,650	4,918	984	0	4,439	5,423
AM Post Shoulder (9:00 - 11:00 am)	685	0	1,420	2,105	731	0	2,323	3,054
Midday (11:00 - 2:00 pm)	830	0	2,794	3,624	3,032	0	2,436	5,468
PM Pre Shoulder (2:00 - 3:00 pm)	407	0	2,068	2,475	1,932	0	1,188	3,120
PM Peak (3:00 - 6:00 pm)	2,463	0	9,379	11,841	5,921	0	5,535	11,456
PM Post Shoulder (6:00 - 8:00 pm)	383	0	2,944	3,328	1,730	0	1,436	3,166
Total Day Time (5:00 am - 8:00 pm)	9,509	0	22,263	31,772	14,765	0	20,300	35,065

## Notes:

Tolling assumptions vary from previous study results.

Results are based on revised 2011 traffic volume estimates.

Numbers do not include reductions for ramp-up effect.

Discount include HOV2 and HVO3+ vehicles only.

**Table 2-1**  
**Per Mile Toll Rates**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**

All Toll Rates are Shown in Future Year Dollars

2018 Northbound											2018 Southbound										
Per Mile Toll Rate (\$)											Per Mile Toll Rate (\$)										
By Toll Zone											By Toll Zone										
Time	SR-167			I-405 South End			I-405 North End			Time	SR-167			I-405 South End			I-405 North End				
	HOV Discount			HOV Discount			HOV Discount				HOV Discount			HOV Discount			HOV Discount				
Period	2	4	6	8	10	12	14	16	18	Period	1	3	5	7	9	11	13	15	17		
AM1	5:00 AM - 6:00 AM	0.40	0.55	0.50	0.05	0.05	0.05	0.05	0.05	0.05	AM1	5:00 AM - 6:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
AM2	6:00 AM - 7:00 AM	0.40	0.60	0.55	0.05	0.60	0.20	0.05	0.05	0.05	AM2	6:00 AM - 7:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.50	
AM3	7:00 AM - 8:00 AM	0.20	0.35	0.50	0.05	0.30	0.10	0.05	0.05	0.05	AM3	7:00 AM - 8:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.35	0.05	
AM4	8:00 AM - 9:00 AM	0.10	0.15	0.20	0.05	0.05	0.05	0.05	0.05	0.05	AM4	8:00 AM - 9:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
AM5	9:00 AM - 10:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	AM5	9:00 AM - 10:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
AM6	10:00 AM - 11:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	AM6	10:00 AM - 11:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
MD1	11:00 AM - 12:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	MD1	11:00 AM - 12:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
MD2	12:00 PM - 1:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	MD2	12:00 PM - 1:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
MD3	1:00 PM - 2:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	MD3	1:00 PM - 2:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
PM1	2:00 PM - 3:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	PM1	2:00 PM - 3:00 PM	0.05	0.20	0.25	0.05	0.50	0.05	0.05	0.05	
PM2	3:00 PM - 4:00 PM	0.05	0.05	0.05	0.10	0.05	0.05	0.05	0.05	0.05	PM2	3:00 PM - 4:00 PM	0.05	0.30	0.40	0.05	0.50	0.10	0.05	0.05	
PM3	4:00 PM - 5:00 PM	0.05	0.10	0.55	0.15	0.05	0.05	0.05	0.05	0.20	PM3	4:00 PM - 5:00 PM	0.05	0.35	0.35	0.05	0.45	0.10	0.05	0.65	
PM4	5:00 PM - 6:00 PM	0.05	0.10	0.20	0.05	0.05	0.05	0.05	0.05	0.05	PM4	5:00 PM - 6:00 PM	0.05	0.10	0.20	0.05	0.70	0.05	0.05	0.40	
PM5	6:00 PM - 7:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	PM5	6:00 PM - 7:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
PM6	7:00 PM - 8:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	PM6	7:00 PM - 8:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	

2030 Northbound											2030 Southbound										
Per Mile Toll Rate (\$)											Per Mile Toll Rate (\$)										
By Toll Zone											By Toll Zone										
Time	SR-167			I-405 South End			I-405 North End			Time	SR-167			I-405 South End			I-405 North End				
	HOV Discount			HOV Discount			HOV Discount				HOV Discount			HOV Discount			HOV Discount				
Period	2	4	6	8	10	12	14	16	18	Period	1	3	5	7	9	11	13	15	17		
AM1	5:00 AM - 6:00 AM	0.35	1.30	0.60	0.05	0.05	0.05	0.05	0.05	0.05	AM1	5:00 AM - 6:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
AM2	6:00 AM - 7:00 AM	0.45	1.80	2.50	0.35	1.55	1.40	0.05	0.05	0.05	AM2	6:00 AM - 7:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.60	0.70	1.35
AM3	7:00 AM - 8:00 AM	0.45	1.20	2.00	0.05	1.30	1.80	0.55	0.05	0.05	AM3	7:00 AM - 8:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.50	0.50	1.45
AM4	8:00 AM - 9:00 AM	0.25	1.00	1.20	0.05	0.75	0.95	0.55	0.05	0.05	AM4	8:00 AM - 9:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.50	0.40	0.80
AM5	9:00 AM - 10:00 AM	0.05	0.10	0.50	0.05	0.45	0.05	0.05	0.05	0.05	AM5	9:00 AM - 10:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
AM6	10:00 AM - 11:00 AM	0.05	0.10	0.35	0.05	0.05	0.05	0.05	0.05	0.05	AM6	10:00 AM - 11:00 AM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MD1	11:00 AM - 12:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	MD1	11:00 AM - 12:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MD2	12:00 PM - 1:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	MD2	12:00 PM - 1:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MD3	1:00 PM - 2:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	MD3	1:00 PM - 2:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
PM1	2:00 PM - 3:00 PM	0.05	0.10	0.50	0.40	0.25	0.05	0.05	0.05	0.05	PM1	2:00 PM - 3:00 PM	0.25	0.75	0.90	0.05	0.60	1.05	0.05	0.05	0.15
PM2	3:00 PM - 4:00 PM	0.05	0.30	0.85	0.50	0.55	0.40	0.25	0.20	0.35	PM2	3:00 PM - 4:00 PM	0.40	1.20	1.40	0.05	0.90	1.15	0.05	0.10	0.75
PM3	4:00 PM - 5:00 PM	0.05	0.50	1.80	0.90	1.30	1.00	0.50	0.35	0.65	PM3	4:00 PM - 5:00 PM	0.60	1.15	1.25	0.05	1.20	1.20	0.05	0.10	1.40
PM4	5:00 PM - 6:00 PM	0.05	0.40	1.30	0.25	0.40	1.15	0.25	0.15	0.45	PM4	5:00 PM - 6:00 PM	0.20	0.60	0.80	0.05	1.05	1.25	0.05	0.10	1.10
PM5	6:00 PM - 7:00 PM	0.05	0.10	0.25	0.05	0.05	0.05	0.05	0.05	0.05	PM5	6:00 PM - 7:00 PM	0.05	0.05	0.05	0.05	0.25	0.20	0.05	0.05	0.05
PM6	7:00 PM - 8:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	PM6	7:00 PM - 8:00 PM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.

**Table 2-2-1**  
**Toll Charge Matrix AM1 (5:00 am -6:00 am)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Toll Rates are Shown in Future Year Dollars**

2018 Northbound										2018 Southbound										
Toll Rate (\$)										Toll Rate (\$)										
By Toll Zone										By Toll Zone										
SR 167			I-405 South			I-405 North				I-405 North			I-405 South			SR 167				
Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10				Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10				
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$1.72	\$4.64	\$7.24	\$7.43	\$7.62	\$7.85	\$8.13	\$8.29	\$8.62	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$2.92	\$5.52	\$5.71	\$5.90	\$6.13	\$6.41	\$6.57	\$6.90	15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$2.60	\$2.79	\$2.98	\$3.21	\$3.49	\$3.65	\$3.99	13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20	9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01	7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50	3							\$0.27	\$0.45	
	18									\$0.34	1								\$0.19	

2030 Northbound										2030 Southbound										
Toll Rate (\$)										Toll Rate (\$)										
By Toll Zone										By Toll Zone										
SR 167			I-405 South			I-405 North				I-405 North			I-405 South			SR 167				
Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50				Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50				
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$1.51	\$8.40	\$11.52	\$11.71	\$11.90	\$12.13	\$12.41	\$12.57	\$12.90	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$6.89	\$10.01	\$10.20	\$10.39	\$10.62	\$10.90	\$11.06	\$11.40	15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$3.12	\$3.31	\$3.50	\$3.73	\$4.01	\$4.17	\$4.51	13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20	9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01	7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50	3							\$0.27	\$0.45	
	18									\$0.34	1								\$0.19	

NOTE:  
- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
- Tolling assumptions vary from previous study results.  
- Results are based on revised 2011 traffic volume estimates.  
- Numbers do not include reductions for ramp-up effect.  
- HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-2**  
**Toll Charge Matrix AM2 (6:00 am -7:00 am)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Toll Rates are Shown in Future Year Dollars**

		2018 Northbound Toll Rate (\$) By Toll Zone									2018 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$1.72	\$4.90	\$7.76	\$7.95	\$10.23	\$11.15	\$11.43	\$11.59	\$11.93	I-405 North	17	\$3.85	\$4.01	\$4.24	\$4.47	\$4.66	\$4.85	\$5.11	\$5.38	\$5.56
	4		\$3.18	\$6.04	\$6.23	\$8.51	\$9.43	\$9.71	\$9.87	\$10.21		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$2.86	\$3.05	\$5.33	\$6.25	\$6.53	\$6.69	\$7.03		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$2.47	\$3.39	\$3.67	\$3.83	\$4.17	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$2.28	\$3.20	\$3.48	\$3.64	\$3.98		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.92	\$1.20	\$1.36	\$1.70		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.71
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1									\$0.19

		2030 Northbound Toll Rate (\$) By Toll Zone									2030 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$1.94	\$11.48	\$24.48	\$25.81	\$31.70	\$38.14	\$38.42	\$38.58	\$38.91	I-405 North	17	\$10.40	\$12.57	\$15.39	\$15.62	\$15.81	\$16.00	\$16.26	\$16.52	\$16.71
	4		\$9.54	\$22.54	\$23.87	\$29.76	\$36.20	\$36.48	\$36.64	\$36.98		15		\$2.17	\$4.99	\$5.22	\$5.41	\$5.60	\$5.86	\$6.13	\$6.31
	6			\$13.00	\$14.33	\$20.22	\$26.66	\$26.94	\$27.10	\$27.44		13			\$2.82	\$3.05	\$3.24	\$3.43	\$3.69	\$3.96	\$4.14
I-405 South	8				\$1.33	\$7.22	\$13.66	\$13.94	\$14.10	\$14.44	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$5.89	\$12.33	\$12.61	\$12.77	\$13.11		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$6.44	\$6.72	\$6.88	\$7.22		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.71
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1									\$0.19

NOTE:  
- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
- Tolling assumptions vary from previous study results.  
- Results are based on revised 2011 traffic volume estimates.  
- Numbers do not include reductions for ramp-up effect.  
- HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-3**  
**Toll Charge Matrix AM3 (7:00 am -8:00 am)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Toll Rates are Shown in Future Year Dollars**

		2018 Northbound Toll Rate (\$) By Toll Zone									2018 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$0.86	\$2.72	\$5.32	\$5.51	\$6.65	\$7.11	\$7.39	\$7.55	\$7.88	I-405 North	17	\$2.70	\$2.85	\$3.09	\$3.32	\$3.51	\$3.70	\$3.96	\$4.22	\$4.41
	4		\$1.86	\$4.46	\$4.65	\$5.79	\$6.25	\$6.53	\$6.69	\$7.02		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$2.60	\$2.79	\$3.93	\$4.39	\$4.67	\$4.83	\$5.17		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$1.33	\$1.79	\$2.07	\$2.23	\$2.57	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$1.14	\$1.60	\$1.88	\$2.04	\$2.38		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.46	\$0.74	\$0.90	\$1.24		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.71
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1									\$0.19

		2030 Northbound Toll Rate (\$) By Toll Zone									2030 Southbound Toll Rate (\$) By Toll Zone										
		SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167				
		Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50				
from \ to		2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1	
SR 167	2	\$1.94	\$8.30	\$18.70	\$18.89	\$23.83	\$32.11	\$35.19	\$35.35	\$35.68	I-405 North	17	\$11.17	\$12.72	\$15.07	\$15.30	\$15.49	\$15.68	\$15.94	\$16.20	\$16.39
	4		\$6.36	\$16.76	\$16.95	\$21.89	\$30.17	\$33.25	\$33.41	\$33.75		15		\$1.55	\$3.90	\$4.13	\$4.32	\$4.51	\$4.77	\$5.04	\$5.22
	6			\$10.40	\$10.59	\$15.53	\$23.81	\$26.89	\$27.05	\$27.39		13			\$2.35	\$2.58	\$2.77	\$2.96	\$3.22	\$3.49	\$3.67
I-405 South	8				\$0.19	\$5.13	\$13.41	\$16.49	\$16.65	\$16.99	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$4.94	\$13.22	\$16.30	\$16.46	\$16.80		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$8.28	\$11.36	\$11.52	\$11.86		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$3.08	\$3.24	\$3.58	SR 167	5							\$0.26	\$0.53	\$0.71
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1									\$0.19

NOTE:  
- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
- Tolling assumptions vary from previous study results.  
- Results are based on revised 2011 traffic volume estimates.  
- Numbers do not include reductions for ramp-up effect.  
- HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-4**  
**Toll Charge Matrix AM4 (8:00 am -9:00 am)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

2018 Northbound										2018 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.43	\$1.23	\$2.27	\$2.46	\$2.65	\$2.88	\$3.16	\$3.32	\$3.65	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.80	\$1.84	\$2.03	\$2.22	\$2.45	\$2.73	\$2.89	\$3.22		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$1.04	\$1.23	\$1.42	\$1.65	\$1.93	\$2.09	\$2.43		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.71
	16								\$0.16	\$0.50		3								\$0.27	\$0.45
	18									\$0.34		1									\$0.19

2030 Northbound										2030 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$1.08	\$6.38	\$12.62	\$12.81	\$15.66	\$20.03	\$23.11	\$23.27	\$23.60	I-405 North	17	\$6.16	\$7.40	\$9.75	\$9.98	\$10.17	\$10.36	\$10.62	\$10.89	\$11.07
	4		\$5.30	\$11.54	\$11.73	\$14.58	\$18.95	\$22.03	\$22.19	\$22.53		15		\$1.24	\$3.59	\$3.82	\$4.01	\$4.20	\$4.46	\$4.73	\$4.91
	6			\$6.24	\$6.43	\$9.28	\$13.65	\$16.73	\$16.89	\$17.23		13			\$2.35	\$2.58	\$2.77	\$2.96	\$3.22	\$3.49	\$3.67
I-405 South	8				\$0.19	\$3.04	\$7.41	\$10.49	\$10.65	\$10.99	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$2.85	\$7.22	\$10.30	\$10.46	\$10.80		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$4.37	\$7.45	\$7.61	\$7.95		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$3.08	\$3.24	\$3.58	SR 167	5							\$0.26	\$0.53	\$0.71
	16								\$0.16	\$0.50		3								\$0.27	\$0.45
	18									\$0.34		1									\$0.19

NOTE:  
 - If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
 - Tolling assumptions vary from previous study results.  
 - Results are based on revised 2011 traffic volume estimates.  
 - Numbers do not include reductions for ramp-up effect.  
 - HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-5**  
**Toll Charge Matrix AM5 (9:00 am -10:00 am)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

2018 Northbound										2018 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$0.93	\$1.12	\$1.35	\$1.63	\$1.79	\$2.13	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.27	\$0.53	\$0.72	\$0.91	\$1.14	\$1.42	\$1.58	\$1.91		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$0.26	\$0.45	\$0.64	\$0.87	\$1.15	\$1.31	\$1.65		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7				\$0.19	\$0.45	\$0.72	\$0.90		
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1								\$0.19	

2030 Northbound										2030 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.75	\$3.35	\$3.54	\$5.25	\$5.48	\$5.76	\$5.92	\$6.25	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.53	\$3.13	\$3.32	\$5.03	\$5.26	\$5.54	\$5.70	\$6.04		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$2.60	\$2.79	\$4.50	\$4.73	\$5.01	\$5.17	\$5.51		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$1.90	\$2.13	\$2.41	\$2.57	\$2.91	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$1.71	\$1.94	\$2.22	\$2.38	\$2.72		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7				\$0.19	\$0.45	\$0.72	\$0.90		
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1								\$0.19	

NOTE:  
 - If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
 - Tolling assumptions vary from previous study results.  
 - Results are based on revised 2011 traffic volume estimates.  
 - Numbers do not include reductions for ramp-up effect.  
 - HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-6**  
**Toll Charge Matrix AM6 (10:00 am -11:00 am)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

2018 Northbound										2018 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$0.93	\$1.12	\$1.35	\$1.63	\$1.79	\$2.13	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.27	\$0.53	\$0.72	\$0.91	\$1.14	\$1.42	\$1.58	\$1.91		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$0.26	\$0.45	\$0.64	\$0.87	\$1.15	\$1.31	\$1.65		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1									\$0.19

2030 Northbound										2030 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.75	\$2.57	\$2.76	\$2.95	\$3.18	\$3.46	\$3.62	\$3.95	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.53	\$2.35	\$2.54	\$2.73	\$2.96	\$3.24	\$3.40	\$3.74		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$1.82	\$2.01	\$2.20	\$2.43	\$2.71	\$2.87	\$3.21		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1									\$0.19

NOTE:  
 - If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
 - Tolling assumptions vary from previous study results.  
 - Results are based on revised 2011 traffic volume estimates.  
 - Numbers do not include reductions for ramp-up effect.  
 - HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-7**  
**Toll Charge Matrix MD6 (11:00 am -12:00 pm)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**

All Toll Rates are Shown in Future Year Dollars

2018 Northbound										2018 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$0.93	\$1.12	\$1.35	\$1.63	\$1.79	\$2.13	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.27	\$0.53	\$0.72	\$0.91	\$1.14	\$1.42	\$1.58	\$1.91		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$0.26	\$0.45	\$0.64	\$0.87	\$1.15	\$1.31	\$1.65		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7				\$0.19	\$0.45	\$0.72	\$0.90		
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1								\$0.19	

2030 Northbound										2030 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$0.93	\$1.12	\$1.35	\$1.63	\$1.79	\$2.13	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.27	\$0.53	\$0.72	\$0.91	\$1.14	\$1.42	\$1.58	\$1.91		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$0.26	\$0.45	\$0.64	\$0.87	\$1.15	\$1.31	\$1.65		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7				\$0.19	\$0.45	\$0.72	\$0.90		
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1								\$0.19	

**NOTE:**

- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.
- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-8**  
**Toll Charge Matrix MD2 (12:00 pm -1:00 pm)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

2018 Northbound										2018 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$0.93	\$1.12	\$1.35	\$1.63	\$1.79	\$2.13	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.27	\$0.53	\$0.72	\$0.91	\$1.14	\$1.42	\$1.58	\$1.91		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$0.26	\$0.45	\$0.64	\$0.87	\$1.15	\$1.31	\$1.65		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.71
	16								\$0.16	\$0.50		3								\$0.27	\$0.45
	18									\$0.34		1									\$0.19

2030 Northbound										2030 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$0.93	\$1.12	\$1.35	\$1.63	\$1.79	\$2.13	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.27	\$0.53	\$0.72	\$0.91	\$1.14	\$1.42	\$1.58	\$1.91		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$0.26	\$0.45	\$0.64	\$0.87	\$1.15	\$1.31	\$1.65		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5							\$0.26	\$0.53	\$0.71
	16								\$0.16	\$0.50		3								\$0.27	\$0.45
	18									\$0.34		1									\$0.19

NOTE:  
 - If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
 - Tolling assumptions vary from previous study results.  
 - Results are based on revised 2011 traffic volume estimates.  
 - Numbers do not include reductions for ramp-up effect.  
 - HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-9**  
**Toll Charge Matrix MD3 (1:00 pm -2:00 pm)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Toll Rates are Shown in Future Year Dollars**

2018 Northbound										2018 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$0.93	\$1.12	\$1.35	\$1.63	\$1.79	\$2.13	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.27	\$0.53	\$0.72	\$0.91	\$1.14	\$1.42	\$1.58	\$1.91		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$0.26	\$0.45	\$0.64	\$0.87	\$1.15	\$1.31	\$1.65		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7				\$0.19	\$0.45	\$0.72	\$0.90		
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1									\$0.19

2030 Northbound										2030 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$0.93	\$1.12	\$1.35	\$1.63	\$1.79	\$2.13	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.27	\$0.53	\$0.72	\$0.91	\$1.14	\$1.42	\$1.58	\$1.91		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$0.26	\$0.45	\$0.64	\$0.87	\$1.15	\$1.31	\$1.65		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7				\$0.19	\$0.45	\$0.72	\$0.90		
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1									\$0.19

NOTE:  
- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
- Tolling assumptions vary from previous study results.  
- Results are based on revised 2011 traffic volume estimates.  
- Numbers do not include reductions for ramp-up effect.  
- HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-10**  
**Toll Charge Matrix PM1 (2:00 pm -3:00 pm)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

2018 Northbound										2018 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$0.93	\$1.12	\$1.35	\$1.63	\$1.79	\$2.13	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$2.91	\$3.10	\$4.40	\$5.46	\$5.64
	4		\$0.27	\$0.53	\$0.72	\$0.91	\$1.14	\$1.42	\$1.58	\$1.91		15		\$0.16	\$0.39	\$0.62	\$2.52	\$2.71	\$4.01	\$5.07	\$5.26
	6			\$0.26	\$0.45	\$0.64	\$0.87	\$1.15	\$1.31	\$1.65		13			\$0.24	\$0.47	\$2.37	\$2.56	\$3.86	\$4.92	\$5.10
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$2.13	\$2.32	\$3.62	\$4.68	\$4.87
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$1.90	\$2.09	\$3.39	\$4.45	\$4.64	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$1.49	\$2.55	\$2.74	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$1.30	\$2.36	\$2.55	
	16								\$0.16	\$0.50		3							\$1.06	\$1.25	
	18									\$0.34		1								\$0.19	

2030 Northbound										2030 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.75	\$3.35	\$4.87	\$5.82	\$6.05	\$6.33	\$6.49	\$6.82	I-405 North	17	\$1.16	\$1.31	\$1.55	\$6.38	\$8.66	\$8.85	\$13.53	\$17.50	\$18.43
	4		\$0.53	\$3.13	\$4.65	\$5.60	\$5.83	\$6.11	\$6.27	\$6.61		15		\$0.16	\$0.39	\$5.22	\$7.50	\$7.69	\$12.37	\$16.35	\$17.27
	6			\$2.60	\$4.12	\$5.07	\$5.30	\$5.58	\$5.74	\$6.08		13			\$0.24	\$5.07	\$7.35	\$7.54	\$12.22	\$16.19	\$17.12
I-405 South	8				\$1.52	\$2.47	\$2.70	\$2.98	\$3.14	\$3.48	I-405 South	11				\$4.83	\$7.11	\$7.30	\$11.98	\$15.96	\$16.88
	10					\$0.95	\$1.18	\$1.46	\$1.62	\$1.96		9				\$2.28	\$2.47	\$7.15	\$11.13	\$12.05	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$4.87	\$8.85	\$9.77	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$4.68	\$8.66	\$9.58	
	16								\$0.16	\$0.50		3							\$3.98	\$4.90	
	18									\$0.34		1								\$0.93	

NOTE:  
 - If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
 - Tolling assumptions vary from previous study results.  
 - Results are based on revised 2011 traffic volume estimates.  
 - Numbers do not include reductions for ramp-up effect.  
 - HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-11**  
**Toll Charge Matrix PM2 (3:00 pm -4:00 pm)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

2018 Northbound										2018 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167										I-405 North			I-405 South			SR 167					
Minimum Toll - \$0.87										Minimum Toll - \$0.87			Minimum Toll - \$0.87			Minimum Toll - \$0.87					
Discount \$1.10										Discount \$1.10			Discount \$1.10			Discount \$1.10					
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$1.12	\$1.31	\$1.54	\$1.82	\$1.98	\$2.32	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.24	\$3.14	\$3.33	\$5.41	\$7.00	\$7.18
	4		\$0.27	\$0.53	\$0.91	\$1.10	\$1.33	\$1.61	\$1.77	\$2.10		15		\$0.16	\$0.39	\$0.85	\$2.75	\$2.94	\$5.02	\$6.61	\$6.80
	6			\$0.26	\$0.64	\$0.83	\$1.06	\$1.34	\$1.50	\$1.84		13			\$0.24	\$0.70	\$2.60	\$2.79	\$4.87	\$6.46	\$6.64
I-405 South	8				\$0.38	\$0.57	\$0.80	\$1.08	\$1.24	\$1.58	I-405 South	11				\$0.46	\$2.36	\$2.55	\$4.63	\$6.22	\$6.41
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$1.90	\$2.09	\$4.17	\$5.76	\$5.95	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$2.27	\$3.86	\$4.05	
I-405 North	14						\$0.28	\$0.44	\$0.78	SR 167	5							\$2.08	\$3.67	\$3.86	
	16							\$0.16	\$0.50		3								\$1.59	\$1.78	
	18								\$0.34		1									\$0.19	

2030 Northbound										2030 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167										I-405 North			I-405 South			SR 167					
Minimum Toll - \$1.36										Minimum Toll - \$1.36			Minimum Toll - \$1.36			Minimum Toll - \$1.36					
Discount \$1.50										Discount \$1.50			Discount \$1.50			Discount \$1.50					
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$1.81	\$6.23	\$8.13	\$10.22	\$12.06	\$13.46	\$14.10	\$16.44	I-405 North	17	\$5.78	\$6.09	\$6.32	\$11.61	\$15.03	\$15.22	\$22.50	\$28.86	\$30.34
	4		\$1.59	\$6.01	\$7.91	\$10.00	\$11.84	\$13.24	\$13.88	\$16.23		15		\$0.31	\$0.55	\$5.84	\$9.26	\$9.45	\$16.73	\$23.09	\$24.57
	6			\$4.42	\$6.32	\$8.41	\$10.25	\$11.65	\$12.29	\$14.64		13			\$0.24	\$5.53	\$8.95	\$9.14	\$16.42	\$22.78	\$24.26
I-405 South	8				\$1.90	\$3.99	\$5.83	\$7.23	\$7.87	\$10.22	I-405 South	11				\$5.29	\$8.71	\$8.90	\$16.18	\$22.54	\$24.02
	10					\$2.09	\$3.93	\$5.33	\$5.97	\$8.32		9				\$3.42	\$3.61	\$10.89	\$17.25	\$18.73	
	12						\$1.84	\$3.24	\$3.88	\$6.23		7					\$0.19	\$7.47	\$13.83	\$15.31	
I-405 North	14						\$1.40	\$2.04	\$4.39	SR 167	5							\$7.28	\$13.64	\$15.12	
	16							\$0.64	\$2.99		3								\$6.36	\$7.84	
	18								\$2.35		1									\$1.48	

NOTE:  
 - If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
 - Tolling assumptions vary from previous study results.  
 - Results are based on revised 2011 traffic volume estimates.  
 - Numbers do not include reductions for ramp-up effect.  
 - HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-12**  
**Toll Charge Matrix PM3 (4:00 pm -5:00 pm)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Toll Rates are Shown in Future Year Dollars**

2018 Northbound										2018 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.75	\$3.61	\$4.18	\$4.37	\$4.60	\$4.88	\$5.04	\$6.38	I-405 North	17	\$5.01	\$5.16	\$5.40	\$5.86	\$7.57	\$7.76	\$9.58	\$11.43	\$11.62
	4		\$0.53	\$3.39	\$3.96	\$4.15	\$4.38	\$4.66	\$4.82	\$6.16		15		\$0.16	\$0.39	\$0.85	\$2.56	\$2.75	\$4.57	\$6.43	\$6.61
	6			\$2.86	\$3.43	\$3.62	\$3.85	\$4.13	\$4.29	\$5.63		13			\$0.24	\$0.70	\$2.41	\$2.60	\$4.42	\$6.27	\$6.46
I-405 South	8				\$0.57	\$0.76	\$0.99	\$1.27	\$1.43	\$2.77	I-405 South	11				\$0.46	\$2.17	\$2.36	\$4.18	\$6.04	\$6.22
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$2.20		9				\$1.71	\$1.90	\$3.72	\$5.58	\$5.76	
	12						\$0.23	\$0.51	\$0.67	\$2.01		7					\$0.19	\$2.01	\$3.87	\$4.05	
I-405 North	14							\$0.28	\$0.44	\$1.78	SR 167	5						\$1.82	\$3.68	\$3.86	
	16								\$0.16	\$1.50		3							\$1.86	\$2.04	
	18									\$1.34		1									\$0.19

2030 Northbound										2030 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$2.87	\$12.23	\$15.65	\$20.59	\$25.19	\$27.99	\$29.11	\$33.46	I-405 North	17	\$10.78	\$11.09	\$11.33	\$16.85	\$21.41	\$21.60	\$28.10	\$34.19	\$36.41
	4		\$2.65	\$12.01	\$15.43	\$20.37	\$24.97	\$27.77	\$28.89	\$33.25		15		\$0.31	\$0.55	\$6.07	\$10.63	\$10.82	\$17.32	\$23.41	\$25.63
	6			\$9.36	\$12.78	\$17.72	\$22.32	\$25.12	\$26.24	\$30.60		13			\$0.24	\$5.76	\$10.32	\$10.51	\$17.01	\$23.10	\$25.32
I-405 South	8				\$3.42	\$8.36	\$12.96	\$15.76	\$16.88	\$21.24	I-405 South	11				\$5.52	\$10.08	\$10.27	\$16.77	\$22.87	\$25.09
	10					\$4.94	\$9.54	\$12.34	\$13.46	\$17.82		9				\$4.56	\$4.75	\$11.25	\$17.35	\$19.57	
	12						\$4.60	\$7.40	\$8.52	\$12.88		7					\$0.19	\$6.69	\$12.79	\$15.01	
I-405 North	14							\$2.80	\$3.92	\$8.28	SR 167	5						\$6.50	\$12.60	\$14.82	
	16								\$1.12	\$5.48		3							\$6.10	\$8.32	
	18									\$4.36		1									\$2.22

NOTE:  
- If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
- Tolling assumptions vary from previous study results.  
- Results are based on revised 2011 traffic volume estimates.  
- Numbers do not include reductions for ramp-up effect.  
- HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-13**  
**Toll Charge Matrix PM4 (5:00 pm -6:00 pm)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

2018 Northbound										2018 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.75	\$1.79	\$1.98	\$2.17	\$2.40	\$2.68	\$2.84	\$3.17	I-405 North	17	\$3.08	\$3.24	\$3.47	\$3.70	\$6.36	\$6.55	\$7.59	\$8.12	\$8.31
	4		\$0.53	\$1.57	\$1.76	\$1.95	\$2.18	\$2.46	\$2.62	\$2.96		15		\$0.16	\$0.39	\$0.62	\$3.28	\$3.47	\$4.51	\$5.04	\$5.23
	6			\$1.04	\$1.23	\$1.42	\$1.65	\$1.93	\$2.09	\$2.43		13			\$0.24	\$0.47	\$3.13	\$3.32	\$4.36	\$4.89	\$5.07
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$2.89	\$3.08	\$4.12	\$4.65	\$4.84
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$2.66	\$2.85	\$3.89	\$4.42	\$4.61	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$1.23	\$1.76	\$1.95	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$1.04	\$1.57	\$1.76	
	16								\$0.16	\$0.50		3							\$0.53	\$0.72	
	18									\$0.34		1									\$0.19

2030 Northbound										2030 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$2.34	\$9.10	\$10.05	\$11.57	\$16.86	\$18.26	\$18.74	\$21.75	I-405 North	17	\$8.47	\$8.78	\$9.02	\$14.77	\$18.76	\$18.95	\$23.11	\$26.29	\$27.03
	4		\$2.12	\$8.88	\$9.83	\$11.35	\$16.64	\$18.04	\$18.52	\$21.54		15		\$0.31	\$0.55	\$6.30	\$10.29	\$10.48	\$14.64	\$17.82	\$18.56
	6			\$6.76	\$7.71	\$9.23	\$14.52	\$15.92	\$16.40	\$19.42		13			\$0.24	\$5.99	\$9.98	\$10.17	\$14.33	\$17.51	\$18.25
I-405 South	8				\$0.95	\$2.47	\$7.76	\$9.16	\$9.64	\$12.66	I-405 South	11				\$5.75	\$9.74	\$9.93	\$14.09	\$17.27	\$18.01
	10					\$1.52	\$6.81	\$8.21	\$8.69	\$11.71		9				\$3.99	\$4.18	\$8.34	\$11.52	\$12.26	
	12						\$5.29	\$6.69	\$7.17	\$10.19		7					\$0.19	\$4.35	\$7.53	\$8.27	
I-405 North	14							\$1.40	\$1.88	\$4.90	SR 167	5						\$4.16	\$7.34	\$8.08	
	16								\$0.48	\$3.50		3							\$3.18	\$3.92	
	18									\$3.02		1									\$0.74

NOTE:  
 - If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
 - Tolling assumptions vary from previous study results.  
 - Results are based on revised 2011 traffic volume estimates.  
 - Numbers do not include reductions for ramp-up effect.  
 - HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-14**  
**Toll Charge Matrix PM5 (6:00 pm -7:00 pm)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

2018 Northbound										2018 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$0.93	\$1.12	\$1.35	\$1.63	\$1.79	\$2.13	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.27	\$0.53	\$0.72	\$0.91	\$1.14	\$1.42	\$1.58	\$1.91		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$0.26	\$0.45	\$0.64	\$0.87	\$1.15	\$1.31	\$1.65		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1									\$0.19

2030 Northbound										2030 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.75	\$2.05	\$2.24	\$2.43	\$2.66	\$2.94	\$3.10	\$3.43	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.70	\$2.65	\$2.84	\$3.10	\$3.36	\$3.55
	4		\$0.53	\$1.83	\$2.02	\$2.21	\$2.44	\$2.72	\$2.88	\$3.22		15		\$0.16	\$0.39	\$1.31	\$2.26	\$2.45	\$2.71	\$2.98	\$3.16
	6			\$1.30	\$1.49	\$1.68	\$1.91	\$2.19	\$2.35	\$2.69		13			\$0.24	\$1.16	\$2.11	\$2.30	\$2.56	\$2.82	\$3.01
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.92	\$1.87	\$2.06	\$2.32	\$2.59	\$2.77
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.95	\$1.14	\$1.40	\$1.67	\$1.85	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1									\$0.19

NOTE:  
 - If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
 - Tolling assumptions vary from previous study results.  
 - Results are based on revised 2011 traffic volume estimates.  
 - Numbers do not include reductions for ramp-up effect.  
 - HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-2-15**  
**Toll Charge Matrix PM6 (7:00 pm -8:00 pm)**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
 All Toll Rates are Shown in Future Year Dollars

2018 Northbound										2018 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10			Minimum Toll - \$0.87 Discount \$1.10						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$0.93	\$1.12	\$1.35	\$1.63	\$1.79	\$2.13	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.27	\$0.53	\$0.72	\$0.91	\$1.14	\$1.42	\$1.58	\$1.91		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$0.26	\$0.45	\$0.64	\$0.87	\$1.15	\$1.31	\$1.65		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1									\$0.19

2030 Northbound										2030 Southbound											
Toll Rate (\$)										Toll Rate (\$)											
By Toll Zone										By Toll Zone											
SR 167			I-405 South			I-405 North			I-405 North			I-405 South			SR 167						
Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50			Minimum Toll - \$1.36 Discount \$1.50						
from \ to	2	4	6	8	10	12	14	16	18	from \ to	17	15	13	11	9	7	5	3	1		
SR 167	2	\$0.22	\$0.48	\$0.74	\$0.93	\$1.12	\$1.35	\$1.63	\$1.79	\$2.13	I-405 North	17	\$0.39	\$0.54	\$0.78	\$1.01	\$1.20	\$1.39	\$1.65	\$1.91	\$2.10
	4		\$0.27	\$0.53	\$0.72	\$0.91	\$1.14	\$1.42	\$1.58	\$1.91		15		\$0.16	\$0.39	\$0.62	\$0.81	\$1.00	\$1.26	\$1.53	\$1.71
	6			\$0.26	\$0.45	\$0.64	\$0.87	\$1.15	\$1.31	\$1.65		13			\$0.24	\$0.47	\$0.66	\$0.85	\$1.11	\$1.37	\$1.56
I-405 South	8				\$0.19	\$0.38	\$0.61	\$0.89	\$1.05	\$1.39	I-405 South	11				\$0.23	\$0.42	\$0.61	\$0.87	\$1.14	\$1.32
	10					\$0.19	\$0.42	\$0.70	\$0.86	\$1.20		9				\$0.19	\$0.38	\$0.64	\$0.91	\$1.09	
	12						\$0.23	\$0.51	\$0.67	\$1.01		7					\$0.19	\$0.45	\$0.72	\$0.90	
I-405 North	14							\$0.28	\$0.44	\$0.78	SR 167	5						\$0.26	\$0.53	\$0.71	
	16								\$0.16	\$0.50		3							\$0.27	\$0.45	
	18									\$0.34		1									\$0.19

NOTE:  
 - If the toll charge per trip is less than the minimum toll charge per facility then the minimum toll will be applied per facility.  
 - Tolling assumptions vary from previous study results.  
 - Results are based on revised 2011 traffic volume estimates.  
 - Numbers do not include reductions for ramp-up effect.  
 - HOV2 and HOV3+ vehicles receive a discount of \$0.55 in 2018 and \$0.75 in 2030 on each major segment (SR167, I-405North, I-405 South).

**Table 2-3-1  
2018 Estimated Traffic and Gross Toll Revenue - I-405 North  
I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and  
Photo Billing Scenario - Traffic Optimization  
All Revenue Values in Future Dollars**

Northbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Tolled Discount	Tolled Non-Discount	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	1,125	994	2,119	\$0.73	\$1,546	\$390,000
AM Peak (7:00 - 9:00 am)	2,547	1,980	4,527	\$0.67	3,033	\$765,000
AM Post Shoulder (9:00 - 11:00 am)	1,591	1,583	3,174	\$0.71	2,250	\$568,000
Midday (11:00 - 2:00 pm)	2,247	2,665	4,912	\$0.74	3,629	\$916,000
PM Pre Shoulder (2:00 - 3:00 pm)	1,354	1,739	3,093	\$0.71	2,210	\$558,000
PM Peak (3:00 - 6:00 pm)	6,102	7,346	13,448	\$0.80	10,777	\$2,719,000
PM Post Shoulder (6:00 - 8:00 pm)	2,209	1,575	3,784	\$0.66	2,487	\$627,000
Total Day Time (5:00 am - 8:00 pm)	17,175	17,882	35,057	\$0.74	\$25,932	\$6,543,000

Southbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	2,333	3,145	5,478	\$1.70	\$9,291	\$2,344,000
AM Peak (7:00 - 9:00 am)	2,859	4,257	7,116	\$1.25	8,891	\$2,243,000
AM Post Shoulder (9:00 - 11:00 am)	1,986	1,486	3,472	\$0.59	2,062	\$520,000
Midday (11:00 - 2:00 pm)	1,929	888	2,817	\$0.53	1,502	\$379,000
PM Pre Shoulder (2:00 - 3:00 pm)	900	848	1,748	\$0.64	1,127	\$284,000
PM Peak (3:00 - 6:00 pm)	3,671	4,233	7,904	\$2.05	16,195	\$4,086,000
PM Post Shoulder (6:00 - 8:00 pm)	885	836	1,721	\$0.64	1,105	\$279,000
Total Day Time (5:00 am - 8:00 pm)	14,563	15,693	30,256	\$1.33	\$40,173	\$10,135,000

Both Directions						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	3,458	4,139	7,597	\$1.43	\$10,837	\$2,734,000
AM Peak (7:00 - 9:00 am)	5,406	6,237	11,643	\$1.02	\$11,924	\$3,008,000
AM Post Shoulder (9:00 - 11:00 am)	3,577	3,069	6,646	\$0.65	\$4,312	\$1,088,000
Midday (11:00 - 2:00 pm)	4,176	3,553	7,729	\$0.66	\$5,131	\$1,295,000
PM Pre Shoulder (2:00 - 3:00 pm)	2,254	2,587	4,841	\$0.69	\$3,337	\$842,000
PM Peak (3:00 - 6:00 pm)	9,773	11,579	21,352	\$1.26	\$26,972	\$6,805,000
PM Post Shoulder (6:00 - 8:00 pm)	3,094	2,411	5,505	\$0.65	\$3,592	\$906,000
Total Day Time (5:00 am - 8:00 pm)	31,738	33,575	65,313	\$1.01	\$66,105	\$16,678,000

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount traffic includes HOV2 and HOV3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 2-3-2  
2030 Estimated Traffic and Gross Toll Revenue - I-405 North  
I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and  
Photo Billing Scenario - Traffic Optimization  
All Revenue Values in Future Dollars**

Northbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	1,378	1,355	2,733	\$0.87	\$2,375	\$599,000
AM Peak (7:00 - 9:00 am)	2,241	2,401	4,642	\$2.27	10,536	\$2,658,000
AM Post Shoulder (9:00 - 11:00 am)	2,660	2,536	5,196	\$0.81	4,201	\$1,060,000
Midday (11:00 - 2:00 pm)	3,736	4,109	7,845	\$0.84	6,576	\$1,659,000
PM Pre Shoulder (2:00 - 3:00 pm)	1,769	2,616	4,385	\$0.89	3,911	\$987,000
PM Peak (3:00 - 6:00 pm)	7,121	7,859	14,980	\$2.70	40,450	\$10,206,000
PM Post Shoulder (6:00 - 8:00 pm)	3,198	2,149	5,347	\$0.75	4,018	\$1,014,000
Total Day Time (5:00 am - 8:00 pm)	22,103	23,025	45,128	\$1.60	\$72,067	\$18,183,000

Southbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	2,764	3,260	6,024	\$5.69	\$34,257	\$8,643,000
AM Peak (7:00 - 9:00 am)	3,468	4,945	8,413	\$6.03	50,745	\$12,803,000
AM Post Shoulder (9:00 - 11:00 am)	3,271	3,315	6,586	\$0.80	5,242	\$1,323,000
Midday (11:00 - 2:00 pm)	3,542	2,024	5,566	\$0.68	3,790	\$956,000
PM Pre Shoulder (2:00 - 3:00 pm)	1,532	2,037	3,569	\$1.03	3,685	\$930,000
PM Peak (3:00 - 6:00 pm)	4,713	4,523	9,236	\$4.79	44,252	\$11,165,000
PM Post Shoulder (6:00 - 8:00 pm)	1,669	1,602	3,271	\$0.79	2,591	\$654,000
Total Day Time (5:00 am - 8:00 pm)	20,959	21,706	42,665	\$3.39	\$144,562	\$36,474,000

Both Directions						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	4,142	4,615	8,757	\$4.18	\$36,632	\$9,242,000
AM Peak (7:00 - 9:00 am)	5,709	7,346	13,055	\$4.69	\$61,281	\$15,461,000
AM Post Shoulder (9:00 - 11:00 am)	5,931	5,851	11,782	\$0.80	\$9,443	\$2,383,000
Midday (11:00 - 2:00 pm)	7,278	6,133	13,411	\$0.77	\$10,366	\$2,615,000
PM Pre Shoulder (2:00 - 3:00 pm)	3,301	4,653	7,954	\$0.95	\$7,596	\$1,917,000
PM Peak (3:00 - 6:00 pm)	11,834	12,382	24,216	\$3.50	\$84,702	\$21,371,000
PM Post Shoulder (6:00 - 8:00 pm)	4,867	3,751	8,618	\$0.77	\$6,609	\$1,668,000
Total Day Time (5:00 am - 8:00 pm)	43,062	44,731	87,793	\$2.47	\$216,629	\$54,657,000

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount traffic includes HOV2 and HOV3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 2-4-1**  
**2018 Estimated Traffic and Gross Toll Revenue - I-405 South**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Revenue Values in Future Dollars**

Northbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	3,471	3,938	7,409	\$1.68	\$12,447	\$3,140,000
AM Peak (7:00 - 9:00 am)	5,001	3,270	8,271	\$0.93	7,700	\$1,943,000
AM Post Shoulder (9:00 - 11:00 am)	3,550	2,098	5,648	\$0.58	3,281	\$828,000
Midday (11:00 - 2:00 pm)	4,508	2,878	7,386	\$0.58	4,315	\$1,089,000
PM Pre Shoulder (2:00 - 3:00 pm)	1,958	1,705	3,663	\$0.64	2,359	\$595,000
PM Peak (3:00 - 6:00 pm)	7,500	6,445	13,945	\$0.68	9,458	\$2,386,000
PM Post Shoulder (6:00 - 8:00 pm)	2,450	1,069	3,519	\$0.53	1,871	\$472,000
<b>Total Day Time (5:00 am - 8:00 pm)</b>	<b>28,438</b>	<b>21,403</b>	<b>49,841</b>	<b>\$0.83</b>	<b>\$41,431</b>	<b>\$10,453,000</b>

Southbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	2,717	2,215	4,932	\$0.61	\$3,029	\$764,000
AM Peak (7:00 - 9:00 am)	3,808	3,112	6,920	\$0.63	4,350	\$1,098,000
AM Post Shoulder (9:00 - 11:00 am)	3,338	1,441	4,779	\$0.52	2,470	\$623,000
Midday (11:00 - 2:00 pm)	4,951	2,315	7,266	\$0.53	3,862	\$974,000
PM Pre Shoulder (2:00 - 3:00 pm)	1,928	1,946	3,874	\$1.84	7,141	\$1,802,000
PM Peak (3:00 - 6:00 pm)	6,587	5,942	12,529	\$1.97	24,690	\$6,229,000
PM Post Shoulder (6:00 - 8:00 pm)	3,676	2,565	6,241	\$0.63	3,916	\$988,000
<b>Total Day Time (5:00 am - 8:00 pm)</b>	<b>27,005</b>	<b>19,536</b>	<b>46,541</b>	<b>\$1.06</b>	<b>\$49,458</b>	<b>\$12,478,000</b>

Both Directions						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	6,188	6,153	12,341	\$1.25	\$15,476	\$3,904,000
AM Peak (7:00 - 9:00 am)	8,809	6,382	15,191	\$0.79	\$12,050	\$3,041,000
AM Post Shoulder (9:00 - 11:00 am)	6,888	3,539	10,427	\$0.55	\$5,751	\$1,451,000
Midday (11:00 - 2:00 pm)	9,459	5,193	14,652	\$0.56	\$8,177	\$2,063,000
PM Pre Shoulder (2:00 - 3:00 pm)	3,886	3,651	7,537	\$1.26	\$9,500	\$2,397,000
PM Peak (3:00 - 6:00 pm)	14,087	12,387	26,474	\$1.29	\$34,148	\$8,615,000
PM Post Shoulder (6:00 - 8:00 pm)	6,126	3,634	9,760	\$0.59	\$5,787	\$1,460,000
<b>Total Day Time (5:00 am - 8:00 pm)</b>	<b>55,443</b>	<b>40,939</b>	<b>96,382</b>	<b>\$0.94</b>	<b>\$90,889</b>	<b>\$22,931,000</b>

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount traffic includes HOV2 and HOV3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 2-4-2  
2030 Estimated Traffic and Gross Toll Revenue - I-405 South  
I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and  
Photo Billing Scenario - Traffic Optimization  
All Revenue Values in Future Dollars**

Northbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	3,782	3,505	7,287	\$5.59	\$40,715	\$10,272,000
AM Peak (7:00 - 9:00 am)	5,023	3,319	8,342	\$7.03	58,639	\$14,795,000
AM Post Shoulder (9:00 - 11:00 am)	5,180	3,637	8,817	\$1.07	9,457	\$2,386,000
Midday (11:00 - 2:00 pm)	6,599	4,982	11,581	\$0.75	8,697	\$2,194,000
PM Pre Shoulder (2:00 - 3:00 pm)	2,572	2,380	4,952	\$1.60	7,904	\$1,994,000
PM Peak (3:00 - 6:00 pm)	8,081	6,165	14,246	\$4.70	66,923	\$16,885,000
PM Post Shoulder (6:00 - 8:00 pm)	3,870	1,619	5,489	\$0.64	3,517	\$887,000
Total Day Time (5:00 am - 8:00 pm)	35,107	25,607	60,714	\$3.23	\$195,852	\$49,413,000

Southbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	3,765	3,843	7,608	\$0.82	\$6,251	\$1,577,000
AM Peak (7:00 - 9:00 am)	4,775	3,825	8,600	\$0.78	6,733	\$1,699,000
AM Post Shoulder (9:00 - 11:00 am)	4,519	2,378	6,897	\$0.67	4,632	\$1,169,000
Midday (11:00 - 2:00 pm)	6,130	3,611	9,741	\$0.69	6,731	\$1,698,000
PM Pre Shoulder (2:00 - 3:00 pm)	2,007	2,063	4,070	\$4.54	18,475	\$4,661,000
PM Peak (3:00 - 6:00 pm)	6,765	5,773	12,538	\$6.04	75,772	\$19,117,000
PM Post Shoulder (6:00 - 8:00 pm)	4,235	3,125	7,360	\$1.02	7,511	\$1,895,000
Total Day Time (5:00 am - 8:00 pm)	32,196	24,618	56,814	\$2.22	\$126,105	\$31,816,000

Both Directions						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	7,547	7,348	14,895	\$3.15	\$46,966	\$11,849,000
AM Peak (7:00 - 9:00 am)	9,798	7,144	16,942	\$3.86	\$65,372	\$16,494,000
AM Post Shoulder (9:00 - 11:00 am)	9,699	6,015	15,714	\$0.90	\$14,089	\$3,555,000
Midday (11:00 - 2:00 pm)	12,729	8,593	21,322	\$0.72	\$15,428	\$3,892,000
PM Pre Shoulder (2:00 - 3:00 pm)	4,579	4,443	9,022	\$2.92	\$26,379	\$6,655,000
PM Peak (3:00 - 6:00 pm)	14,846	11,938	26,784	\$5.33	\$142,695	\$36,002,000
PM Post Shoulder (6:00 - 8:00 pm)	8,105	4,744	12,849	\$0.86	\$11,028	\$2,782,000
Total Day Time (5:00 am - 8:00 pm)	67,303	50,225	117,528	\$2.74	\$321,957	\$81,229,000

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount traffic includes HOV2 and HOV3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 2-5-1  
2018 Estimated Traffic and Gross Toll Revenue - SR 167  
I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and  
Photo Billing Scenario - Traffic Optimization  
All Revenue Values in Future Dollars**

Northbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	1,942	2,948	4,890	\$4.75	\$23,233	\$5,862,000
AM Peak (7:00 - 9:00 am)	2,213	2,772	4,985	\$2.31	11,503	\$2,902,000
AM Post Shoulder (9:00 - 11:00 am)	1,161	1,752	2,913	\$0.71	2,063	\$520,000
Midday (11:00 - 2:00 pm)	1,295	1,565	2,860	\$0.67	1,920	\$484,000
PM Pre Shoulder (2:00 - 3:00 pm)	576	1,399	1,975	\$0.77	1,520	\$383,000
PM Peak (3:00 - 6:00 pm)	2,755	3,417	6,172	\$1.50	9,267	\$2,338,000
PM Post Shoulder (6:00 - 8:00 pm)	752	723	1,475	\$0.65	966	\$244,000
Total Day Time (5:00 am - 8:00 pm)	10,694	14,576	25,270	\$2.00	\$50,472	\$12,733,000

Southbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	451	498	949	\$0.68	\$643	\$162,000
AM Peak (7:00 - 9:00 am)	849	872	1,721	\$0.67	1,159	\$292,000
AM Post Shoulder (9:00 - 11:00 am)	694	608	1,302	\$0.64	838	\$211,000
Midday (11:00 - 2:00 pm)	2,008	1,450	3,458	\$0.60	2,085	\$526,000
PM Pre Shoulder (2:00 - 3:00 pm)	1,144	1,101	2,245	\$1.65	3,698	\$933,000
PM Peak (3:00 - 6:00 pm)	3,802	3,082	6,884	\$2.07	14,236	\$3,592,000
PM Post Shoulder (6:00 - 8:00 pm)	1,360	1,144	2,504	\$0.64	1,611	\$406,000
Total Day Time (5:00 am - 8:00 pm)	10,308	8,755	19,063	\$1.27	\$24,270	\$6,122,000

Both Directions						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	2,393	3,446	5,839	\$4.09	\$23,876	\$6,024,000
AM Peak (7:00 - 9:00 am)	3,062	3,644	6,706	\$1.89	\$12,662	\$3,194,000
AM Post Shoulder (9:00 - 11:00 am)	1,855	2,360	4,215	\$0.69	\$2,901	\$731,000
Midday (11:00 - 2:00 pm)	3,303	3,015	6,318	\$0.63	\$4,005	\$1,010,000
PM Pre Shoulder (2:00 - 3:00 pm)	1,720	2,500	4,220	\$1.24	\$5,218	\$1,316,000
PM Peak (3:00 - 6:00 pm)	6,557	6,499	13,056	\$1.80	\$23,503	\$5,930,000
PM Post Shoulder (6:00 - 8:00 pm)	2,112	1,867	3,979	\$0.65	\$2,577	\$650,000
Total Day Time (5:00 am - 8:00 pm)	21,002	23,331	44,333	\$1.69	\$74,742	\$18,855,000

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount traffic includes HOV2 and HOV3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 2-5-2  
2030 Estimated Traffic and Gross Toll Revenue - SR 167  
I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and  
Photo Billing Scenario - Traffic Optimization  
All Revenue Values in Future Dollars**

Northbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	2,080	2,872	4,952	\$10.89	\$53,905	\$13,600,000
AM Peak (7:00 - 9:00 am)	2,578	2,198	4,776	\$9.45	45,117	\$11,383,000
AM Post Shoulder (9:00 - 11:00 am)	1,853	2,357	4,210	\$2.00	8,405	\$2,121,000
Midday (11:00 - 2:00 pm)	2,197	2,881	5,078	\$0.85	4,291	\$1,083,000
PM Pre Shoulder (2:00 - 3:00 pm)	779	1,679	2,458	\$2.40	5,901	\$1,489,000
PM Peak (3:00 - 6:00 pm)	3,493	3,429	6,922	\$6.23	43,095	\$10,873,000
PM Post Shoulder (6:00 - 8:00 pm)	1,470	1,164	2,634	\$1.11	2,915	\$735,000
Total Day Time (5:00 am - 8:00 pm)	14,450	16,580	31,030	\$5.27	\$163,629	\$41,284,000

Southbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	677	881	1,558	\$0.86	\$1,344	\$339,000
AM Peak (7:00 - 9:00 am)	1,212	1,049	2,261	\$0.78	1,755	\$443,000
AM Post Shoulder (9:00 - 11:00 am)	1,119	871	1,990	\$0.75	1,499	\$378,000
Midday (11:00 - 2:00 pm)	2,826	2,217	5,043	\$0.75	3,779	\$953,000
PM Pre Shoulder (2:00 - 3:00 pm)	1,142	1,185	2,327	\$6.05	14,069	\$3,550,000
PM Peak (3:00 - 6:00 pm)	3,910	2,841	6,751	\$8.07	54,448	\$13,737,000
PM Post Shoulder (6:00 - 8:00 pm)	1,720	1,495	3,215	\$0.78	2,507	\$633,000
Total Day Time (5:00 am - 8:00 pm)	12,606	10,539	23,145	\$3.43	\$79,401	\$20,033,000

Both Directions						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	2,757	3,753	6,510	\$8.49	\$55,249	\$13,939,000
AM Peak (7:00 - 9:00 am)	3,790	3,247	7,037	\$6.66	\$46,872	\$11,826,000
AM Post Shoulder (9:00 - 11:00 am)	2,972	3,228	6,200	\$1.60	\$9,904	\$2,499,000
Midday (11:00 - 2:00 pm)	5,023	5,098	10,121	\$0.80	\$8,070	\$2,036,000
PM Pre Shoulder (2:00 - 3:00 pm)	1,921	2,864	4,785	\$4.17	\$19,970	\$5,039,000
PM Peak (3:00 - 6:00 pm)	7,403	6,270	13,673	\$7.13	\$97,543	\$24,610,000
PM Post Shoulder (6:00 - 8:00 pm)	3,190	2,659	5,849	\$0.93	\$5,422	\$1,368,000
Total Day Time (5:00 am - 8:00 pm)	27,056	27,119	54,175	\$4.49	\$243,030	\$61,317,000

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount traffic includes HOV2 and HOV3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 2-6-1**  
**2018 Estimated Traffic and Gross Toll Revenue - Total ETL System**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Revenue Values in Future Dollars**

Northbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	5,185	6,281	11,466	\$3.25	\$37,226	\$9,392,000
AM Peak (7:00 - 9:00 am)	7,378	6,158	13,536	\$1.64	\$22,236	\$5,610,000
AM Post Shoulder (9:00 - 11:00 am)	4,823	4,074	8,897	\$0.85	\$7,594	\$1,916,000
Midday (11:00 - 2:00 pm)	6,412	5,851	12,263	\$0.80	\$9,865	\$2,489,000
PM Pre Shoulder (2:00 - 3:00 pm)	3,039	3,980	7,019	\$0.87	\$6,090	\$1,537,000
PM Peak (3:00 - 6:00 pm)	12,401	13,653	26,054	\$1.13	\$29,502	\$7,443,000
PM Post Shoulder (6:00 - 8:00 pm)	4,192	2,898	7,090	\$0.75	\$5,323	\$1,343,000
Total Day Time (5:00 am - 8:00 pm)	43,430	42,895	86,325	\$1.37	\$117,836	\$29,730,000

Southbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	4,360	4,599	8,959	\$1.45	\$12,963	\$3,271,000
AM Peak (7:00 - 9:00 am)	5,886	6,435	12,321	\$1.17	\$14,400	\$3,633,000
AM Post Shoulder (9:00 - 11:00 am)	4,584	2,684	7,268	\$0.74	\$5,371	\$1,355,000
Midday (11:00 - 2:00 pm)	7,080	3,445	10,525	\$0.71	\$7,448	\$1,879,000
PM Pre Shoulder (2:00 - 3:00 pm)	3,277	3,073	6,350	\$1.88	\$11,966	\$3,019,000
PM Peak (3:00 - 6:00 pm)	11,546	10,567	22,113	\$2.49	\$55,122	\$13,907,000
PM Post Shoulder (6:00 - 8:00 pm)	4,783	3,574	8,357	\$0.79	\$6,631	\$1,673,000
Total Day Time (5:00 am - 8:00 pm)	41,516	34,377	75,893	\$1.50	\$113,901	\$28,737,000

Both Directions						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	9,545	10,880	20,425	\$2.46	\$50,189	\$12,663,000
AM Peak (7:00 - 9:00 am)	13,264	12,593	25,857	\$1.42	\$36,636	\$9,243,000
AM Post Shoulder (9:00 - 11:00 am)	9,407	6,758	16,165	\$0.80	\$12,965	\$3,271,000
Midday (11:00 - 2:00 pm)	13,492	9,296	22,788	\$0.76	\$17,313	\$4,368,000
PM Pre Shoulder (2:00 - 3:00 pm)	6,316	7,053	13,369	\$1.35	\$18,056	\$4,556,000
PM Peak (3:00 - 6:00 pm)	23,947	24,220	48,167	\$1.76	\$84,624	\$21,350,000
PM Post Shoulder (6:00 - 8:00 pm)	8,975	6,472	15,447	\$0.77	\$11,954	\$3,016,000
Total Day Time (5:00 am - 8:00 pm)	84,946	77,272	162,218	\$1.43	\$231,737	\$58,467,000

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount traffic includes HOV2 and HOV3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 2-6-2**  
**2030 Estimated Traffic and Gross Toll Revenue - Total ETL System**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Revenue Values in Future Dollars**

Northbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	5,756	6,322	12,078	\$8.03	\$96,994	\$24,472,000
AM Peak (7:00 - 9:00 am)	7,576	6,379	13,955	\$8.19	\$114,291	\$28,836,000
AM Post Shoulder (9:00 - 11:00 am)	7,104	6,140	13,244	\$1.67	\$22,063	\$5,566,000
Midday (11:00 - 2:00 pm)	9,505	9,276	18,781	\$1.04	\$19,564	\$4,936,000
PM Pre Shoulder (2:00 - 3:00 pm)	3,903	5,306	9,209	\$1.92	\$17,716	\$4,470,000
PM Peak (3:00 - 6:00 pm)	14,137	14,381	28,518	\$5.28	\$150,467	\$37,963,000
PM Post Shoulder (6:00 - 8:00 pm)	6,422	4,041	10,463	\$1.00	\$10,450	\$2,637,000
<b>Total Day Time (5:00 am - 8:00 pm)</b>	<b>54,403</b>	<b>51,845</b>	<b>106,248</b>	<b>\$4.06</b>	<b>\$431,545</b>	<b>\$108,880,000</b>

Southbound Direction						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	5,540	6,097	11,637	\$3.60	\$41,852	\$10,559,000
AM Peak (7:00 - 9:00 am)	7,394	7,471	14,865	\$3.98	\$59,233	\$14,944,000
AM Post Shoulder (9:00 - 11:00 am)	6,649	4,984	11,633	\$0.98	\$11,372	\$2,869,000
Midday (11:00 - 2:00 pm)	9,671	5,699	15,370	\$0.93	\$14,300	\$3,608,000
PM Pre Shoulder (2:00 - 3:00 pm)	3,963	4,487	8,450	\$4.29	\$36,230	\$9,141,000
PM Peak (3:00 - 6:00 pm)	12,826	10,811	23,637	\$7.38	\$174,472	\$44,019,000
PM Post Shoulder (6:00 - 8:00 pm)	6,115	4,817	10,932	\$1.15	\$12,609	\$3,181,000
<b>Total Day Time (5:00 am - 8:00 pm)</b>	<b>52,158</b>	<b>44,366</b>	<b>96,524</b>	<b>\$3.63</b>	<b>\$350,068</b>	<b>\$88,321,000</b>

Both Directions						
Period	Weekday Traffic			Average Toll Rate	Weekday Revenue	Estimated
	Discount (incl. Toll Free)	Tolled	Total			Annual Gross Toll Revenue
AM Pre Shoulder (5:00 - 7:00 am)	11,296	12,419	23,715	\$5.85	\$138,846	\$35,031,000
AM Peak (7:00 - 9:00 am)	14,970	13,850	28,820	\$6.02	\$173,524	\$43,780,000
AM Post Shoulder (9:00 - 11:00 am)	13,753	11,124	24,877	\$1.34	\$33,435	\$8,435,000
Midday (11:00 - 2:00 pm)	19,176	14,975	34,151	\$0.99	\$33,864	\$8,544,000
PM Pre Shoulder (2:00 - 3:00 pm)	7,866	9,793	17,659	\$3.05	\$53,946	\$13,611,000
PM Peak (3:00 - 6:00 pm)	26,963	25,192	52,155	\$6.23	\$324,939	\$81,982,000
PM Post Shoulder (6:00 - 8:00 pm)	12,537	8,858	21,395	\$1.08	\$23,059	\$5,818,000
<b>Total Day Time (5:00 am - 8:00 pm)</b>	<b>106,561</b>	<b>96,211</b>	<b>202,772</b>	<b>\$3.85</b>	<b>\$781,613</b>	<b>\$197,201,000</b>

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount traffic includes HOV2 and HOV3+ vehicles.
- Average toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 2-7**  
**Estimated Average Weekday Gross Toll Revenue per Segment**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**  
**All Revenue Values in Future Year Dollars**

**2018**

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	\$23,233	\$12,447	\$1,546	\$37,226	\$643	\$3,029	\$9,291	\$12,963
AM Peak (7:00 - 9:00 am)	\$11,503	\$7,700	\$3,033	\$22,236	\$1,159	\$4,350	\$8,891	\$14,400
AM Post Shoulder (9:00 - 11:00 am)	\$2,063	\$3,281	\$2,250	\$7,594	\$838	\$2,470	\$2,062	\$5,371
Midday (11:00 - 2:00 pm)	\$1,920	\$4,315	\$3,629	\$9,865	\$2,085	\$3,862	\$1,502	\$7,448
PM Pre Shoulder (2:00 - 3:00 pm)	\$1,520	\$2,359	\$2,210	\$6,090	\$3,698	\$7,141	\$1,127	\$11,966
PM Peak (3:00 - 6:00 pm)	\$9,267	\$9,458	\$10,777	\$29,502	\$14,236	\$24,690	\$16,195	\$55,122
PM Post Shoulder (6:00 - 8:00 pm)	\$966	\$1,871	\$2,487	\$5,323	\$1,611	\$3,916	\$1,105	\$6,631
<b>Total Day Time (5:00 am - 8:00 pm)</b>	<b>\$50,472</b>	<b>\$41,431</b>	<b>\$25,932</b>	<b>\$117,835</b>	<b>\$24,270</b>	<b>\$49,457</b>	<b>\$40,173</b>	<b>\$113,900</b>

**2030**

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	\$53,905	\$40,715	\$2,375	\$96,994	\$1,344	\$6,251	\$34,257	\$41,852
AM Peak (7:00 - 9:00 am)	\$45,117	\$58,639	\$10,536	\$114,291	\$1,755	\$6,733	\$50,745	\$59,233
AM Post Shoulder (9:00 - 11:00 am)	\$8,405	\$9,457	\$4,201	\$22,063	\$1,499	\$4,632	\$5,242	\$11,372
Midday (11:00 - 2:00 pm)	\$4,291	\$8,697	\$6,576	\$19,564	\$3,779	\$6,731	\$3,790	\$14,300
PM Pre Shoulder (2:00 - 3:00 pm)	\$5,901	\$7,904	\$3,911	\$17,716	\$14,069	\$18,475	\$3,685	\$36,230
PM Peak (3:00 - 6:00 pm)	\$43,095	\$66,923	\$40,450	\$150,467	\$54,448	\$75,772	\$44,252	\$174,472
PM Post Shoulder (6:00 - 8:00 pm)	\$2,915	\$3,517	\$4,018	\$10,450	\$2,507	\$7,511	\$2,591	\$12,609
<b>Total Day Time (5:00 am - 8:00 pm)</b>	<b>\$163,628</b>	<b>\$195,851</b>	<b>\$72,067</b>	<b>\$431,546</b>	<b>\$79,401</b>	<b>\$126,105</b>	<b>\$144,562</b>	<b>\$350,068</b>

**Notes:**

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount traffic includes HOV2 and HOV3+ vehicles.
- Average Toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

Table 2-8

Estimated Average Weekday Total Transactions per Segment  
 I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and  
 Photo Billing Scenario - Traffic Optimization

2018

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	8,922	15,075	4,247	28,244	2,235	9,298	14,681	26,214
AM Peak (7:00 - 9:00 am)	8,803	14,766	6,305	29,873	2,729	8,842	11,362	22,933
AM Post Shoulder (9:00 - 11:00 am)	3,882	11,009	4,508	19,399	2,448	7,236	4,491	14,174
Midday (11:00 - 2:00 pm)	7,159	16,998	9,463	33,620	8,219	15,882	6,223	30,324
PM Pre Shoulder (2:00 - 3:00 pm)	3,649	7,774	7,289	18,712	3,931	8,079	5,002	17,012
PM Peak (3:00 - 6:00 pm)	9,561	23,527	20,560	53,649	11,906	24,526	12,547	48,979
PM Post Shoulder (6:00 - 8:00 pm)	4,190	8,597	5,004	17,791	3,397	10,364	3,353	17,113
Total Day Time (5:00 am - 8:00 pm)	46,166	97,745	57,376	201,288	34,865	84,226	57,658	176,749

2030

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	8,083	15,649	5,610	29,342	3,231	14,919	16,104	34,254
AM Peak (7:00 - 9:00 am)	8,598	17,550	7,142	33,290	3,941	12,160	15,296	31,397
AM Post Shoulder (9:00 - 11:00 am)	6,548	17,153	8,244	31,945	3,917	10,723	8,870	23,510
Midday (11:00 - 2:00 pm)	10,820	24,747	15,565	51,133	11,076	20,937	12,590	44,603
PM Pre Shoulder (2:00 - 3:00 pm)	4,027	8,611	8,092	20,730	3,759	7,887	5,711	17,357
PM Peak (3:00 - 6:00 pm)	11,352	23,544	22,627	57,523	12,323	24,926	16,274	53,523
PM Post Shoulder (6:00 - 8:00 pm)	5,651	10,909	6,914	23,475	4,580	12,550	4,849	21,978
Total Day Time (5:00 am - 8:00 pm)	55,081	118,162	74,194	247,437	42,826	104,103	79,693	226,622

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount traffic includes HOV2 and HOV3+ vehicles.
- Average Toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

Table 2-9

**Estimated Average Weekday Tolloed Non-Discount Transactions per Segment**  
**I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and**  
**Photo Billing Scenario - Traffic Optimization**

2018

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	5,620	8,385	1,340	15,345	809	3,170	6,905	10,884
AM Peak (7:00 - 9:00 am)	5,307	7,219	2,757	15,283	1,494	4,804	9,140	15,438
AM Post Shoulder (9:00 - 11:00 am)	3,282	4,908	1,965	10,156	1,048	2,379	3,182	6,609
Midday (11:00 - 2:00 pm)	2,867	6,639	3,500	13,007	2,822	4,284	1,606	8,713
PM Pre Shoulder (2:00 - 3:00 pm)	2,695	3,670	2,971	9,335	2,093	4,153	1,802	8,048
PM Peak (3:00 - 6:00 pm)	6,424	12,622	13,319	32,365	5,799	12,047	8,494	26,341
PM Post Shoulder (6:00 - 8:00 pm)	1,278	2,184	2,164	5,627	2,156	5,196	1,579	8,932
Total Day Time (5:00 am - 8:00 pm)	27,474	45,627	28,018	101,118	16,222	36,034	32,709	84,965

2030

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	5,269	7,627	1,850	14,746	1,453	6,634	7,108	15,195
AM Peak (7:00 - 9:00 am)	3,827	6,941	3,673	14,442	1,847	6,348	9,897	18,092
AM Post Shoulder (9:00 - 11:00 am)	4,093	8,015	3,831	15,938	1,572	3,936	6,904	12,412
Midday (11:00 - 2:00 pm)	5,346	11,204	6,316	22,867	4,461	7,386	4,124	15,971
PM Pre Shoulder (2:00 - 3:00 pm)	3,113	4,699	4,552	12,364	2,143	4,218	4,077	10,439
PM Peak (3:00 - 6:00 pm)	6,354	10,956	13,226	30,535	5,185	11,337	8,669	25,191
PM Post Shoulder (6:00 - 8:00 pm)	2,040	3,253	3,088	8,381	2,847	6,322	3,071	12,240
Total Day Time (5:00 am - 8:00 pm)	30,044	52,694	36,535	119,272	19,509	46,181	43,849	109,539

## Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount traffic includes HOV2 and HOV3+ vehicles.
- Average Toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

Table 2-10

Estimated Average Weekday Tolled Discount Transactions per Segment  
 I-405 Express Toll Lanes - Option 4 - All Pay with HOV Discount and  
 Photo Billing Scenario - Traffic Optimization

2018

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	3,530	6,460	1,780	11,770	786	3,844	4,481	9,111
AM Peak (7:00 - 9:00 am)	3,890	9,068	4,129	17,087	1,573	5,708	4,751	12,032
AM Post Shoulder (9:00 - 11:00 am)	2,011	6,665	2,522	11,198	1,354	5,126	3,200	9,680
Midday (11:00 - 2:00 pm)	2,328	8,654	3,983	14,965	3,846	8,381	3,295	15,522
PM Pre Shoulder (2:00 - 3:00 pm)	1,037	3,579	2,449	7,065	2,040	4,071	1,618	7,729
PM Peak (3:00 - 6:00 pm)	4,667	13,294	10,674	28,634	6,530	13,382	6,142	26,055
PM Post Shoulder (6:00 - 8:00 pm)	1,230	4,398	3,822	9,451	2,514	7,679	1,463	11,657
Total Day Time (5:00 am - 8:00 pm)	18,693	52,119	29,359	100,170	18,643	48,192	24,949	91,785

2030

Period	Northbound				Southbound			
	SR-167 NB	I-405 South NB	I-405 North NB	Total	SR-167 SB	I-405 South SB	I-405 North SB	Total
AM Pre Shoulder (5:00 - 7:00 am)	3,628	7,693	2,219	13,539	1,246	6,097	5,226	12,569
AM Peak (7:00 - 9:00 am)	4,511	10,228	3,628	18,368	2,306	7,479	6,068	15,854
AM Post Shoulder (9:00 - 11:00 am)	3,139	9,544	4,509	17,192	2,213	7,007	5,154	14,373
Midday (11:00 - 2:00 pm)	3,865	12,410	6,480	22,756	5,378	11,156	5,795	22,329
PM Pre Shoulder (2:00 - 3:00 pm)	1,397	4,582	3,116	9,095	2,082	4,076	2,675	8,833
PM Peak (3:00 - 6:00 pm)	6,010	14,113	12,253	32,376	6,896	13,562	7,968	28,425
PM Post Shoulder (6:00 - 8:00 pm)	2,488	6,897	5,454	14,839	3,198	8,546	2,957	14,700
Total Day Time (5:00 am - 8:00 pm)	25,037	65,468	37,659	128,165	23,317	57,922	35,844	117,083

Notes:

- Tolling assumptions vary from previous study results.
- Results are based on revised 2011 traffic volume estimates.
- Numbers do not include reductions for ramp-up effect.
- Discount traffic includes HOV2 and HOV3+ vehicles.
- Average Toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 3-1**  
**Estimated Average Weekday Traffic and Annual Gross Toll Revenue**  
**I-405 Express Toll Lanes - Option 1 & 4 All Pay with HOV Discount and**  
**Photo Billing Scenario - I-405 North - Traffic Optimization**

Annual Revenue in Thousands of \$

Year	Average Weekday Trips			Annual Gross Toll Revenue (3,4)	Average Toll (4,5)
	Non-Discount Trips	Discount Trips	Total Trips		
<b>2014</b> (1)	<b>11,183</b>	<b>13,851</b>	<b>25,034</b>	<b>\$4,577</b>	<b>\$0.72</b>
2015 (1)	18,047	21,626	39,673	\$7,729	\$0.77
2016 (1)	20,813	24,130	44,942	\$9,326	\$0.82
2017	21,683	24,323	46,006	\$10,166	\$0.88
<b>2018</b> (2)	<b>32,245</b>	<b>30,480</b>	<b>62,725</b>	<b>\$16,017</b>	<b>\$1.01</b>
2019 (2)	34,058	32,244	66,302	\$18,236	\$1.09
2020 (2)	35,209	33,384	68,594	\$20,321	\$1.17
2021	36,071	34,254	70,325	\$22,440	\$1.26
2022	36,944	35,136	72,080	\$24,773	\$1.36
2023	37,838	36,041	73,879	\$27,349	\$1.47
2024	38,754	36,969	75,723	\$30,192	\$1.58
2025	39,691	37,921	77,612	\$33,331	\$1.70
2026	40,652	38,898	79,549	\$36,796	\$1.83
2027	41,635	39,899	81,535	\$40,622	\$1.97
2028	42,643	40,927	83,569	\$44,846	\$2.13
2029	43,674	41,981	85,655	\$49,508	\$2.29
<b>2030</b>	<b>44,731</b>	<b>43,062</b>	<b>87,793</b>	<b>\$54,655</b>	<b>\$2.47</b>

**Cumulative Revenue**

**\$450,885**

- (1) Ramp-up adjustment factors are applied to tolled traffic and revenue for the first three years of operation. Adjustment factors are as follows: 2014 - 78.9% and 2015 - 94.9%, and 2016 - 99.9%.
- (2) Ramp-up adjustment factors are applied to tolled traffic and revenue for the first three years of operation after opening of Option 4 configuration. Adjustment factors are as follows: 2018 - 95.7%, and 2019 - 98.9% and 2020 - 99.9%
- (3) For the development of annual toll revenue, a nominal amount equal to 2 percent of average weekday toll revenue was added for each weekend day.
- (4) All toll and revenue are shown in future year dollars.  
Results are based on revised 2011 traffic volume estimates.
- (5) Average Toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 3-2**  
**Estimated Average Weekday Traffic and Annual Gross Toll Revenue**  
**I-405 Express Toll Lanes - Option 1 & 4 All Pay with HOV Discount and**  
**Photo Billing Scenario - I-405 South - Traffic Optimization**

Annual Revenue in Thousands of \$

Year	Average Weekday Trips			Annual Gross Toll Revenue (2,3)	Average Toll (3,4)
	Non-Discount Trips	Discount Trips	Total Trips		
<b>2014</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$0.00</b>
2015	0	0	0	\$0	\$0.00
2016	0	0	0	\$0	\$0.00
2017	0	0	0	\$0	\$0.00
<b>2018</b> (1)	<b>25,967</b>	<b>35,167</b>	<b>61,134</b>	<b>\$14,545</b>	<b>\$0.94</b>
2019 (1)	37,961	51,365	89,327	\$23,228	\$1.03
2020 (1)	42,248	57,115	99,362	\$28,239	\$1.13
2021	43,086	58,196	101,282	\$31,459	\$1.23
2022	43,826	59,144	102,970	\$34,956	\$1.35
2023	44,579	60,107	104,686	\$38,842	\$1.47
2024	45,345	61,086	106,431	\$43,159	\$1.61
2025	46,124	62,081	108,205	\$47,956	\$1.76
2026	46,917	63,092	110,008	\$53,287	\$1.92
2027	47,723	64,119	111,842	\$59,210	\$2.10
2028	48,543	65,163	113,706	\$65,791	\$2.29
2029	49,377	66,225	115,601	\$73,104	\$2.51
<b>2030</b>	<b>50,225</b>	<b>67,303</b>	<b>117,528</b>	<b>\$81,230</b>	<b>\$2.74</b>

**Cumulative Revenue**

**\$595,006**

- (1) Ramp-up adjustment factors are applied to tolled traffic and revenue for the first three years of operation after opening of Option 4 configuration. Adjustment factors are as follows:  
2018 -63.5% and 2019 - 91.1% and 2020 - 99.7%
- (2) For the development of annual toll revenue, a nominal amount equal to 2 percent of average weekday toll revenue was added for each weekend day.
- (3) All toll and revenue are shown in future year dollars.  
weekday toll revenue was added for each weekend day.
- (4) Average Toll is calculated on the basis of total traffic and includes some amount of  
Results are based on revised 2011 traffic volume estimates.

**Table 3-3**  
**Estimated Average Weekday Traffic and Annual Gross Toll Revenue**  
**I-405 Express Toll Lanes - Option 1 & 4 All Pay with HOV Discount and**  
**Photo Billing Scenario - SR167 - Traffic Optimization**

Annual Revenue in Thousands of \$

Year	Average Weekday Trips			Annual Gross Toll Revenue (3,4)	Average Toll (4,5)
	Non-Discount Trips	Discount Trips	Total Trips		
<b>2014</b> (1)	<b>10,625</b>	<b>11,848</b>	<b>22,473</b>	<b>\$3,923</b>	<b>\$0.69</b>
2015 (1)	11,181	12,077	23,257	\$4,580	\$0.78
2016 (1)	11,765	12,310	24,075	\$5,346	\$0.88
2017	12,381	12,548	24,928	\$6,241	\$0.99
<b>2018</b> (2)	<b>21,893</b>	<b>19,708</b>	<b>41,601</b>	<b>\$17,695</b>	<b>\$1.69</b>
2019 (2)	23,273	21,130	44,404	\$20,495	\$1.83
2020 (2)	23,913	21,898	45,811	\$22,943	\$1.98
2021	24,225	22,375	46,600	\$25,322	\$2.15
2022	24,531	22,852	47,383	\$27,937	\$2.34
2023	24,840	23,340	48,180	\$30,822	\$2.53
2024	25,154	23,838	48,991	\$34,004	\$2.75
2025	25,471	24,346	49,817	\$37,515	\$2.98
2026	25,793	24,865	50,658	\$41,388	\$3.24
2027	26,118	25,396	51,514	\$45,662	\$3.51
2028	26,447	25,938	52,385	\$50,376	\$3.81
2029	26,781	26,491	53,272	\$55,578	\$4.13
<b>2030</b>	<b>27,119</b>	<b>27,056</b>	<b>54,175</b>	<b>\$61,316</b>	<b>\$4.49</b>

**Cumulative Revenue**

**\$491,144**

- (1) Ramp-up adjustment factors are applied to tolled traffic and revenue for the first three years of operation. Adjustment factors are as follows: 2014 - 78.9% and 2015 - 94.9%, and 2016 - 99.9%.
- (2) Ramp-up adjustment factors are applied to tolled traffic and revenue for the first three years of operation after opening of Option 4 configuration. Adjustment factors are as follows: 2018 - 95.2%, and 2019 - 98.9% and 2020 - 99.9%
- (3) For the development of annual toll revenue, a nominal amount equal to 2 percent of average weekday toll revenue was added for each weekend day.
- (4) All toll and revenue are shown in future year dollars.  
Results are based on revised 2011 traffic volume estimates.
- (5) Average Toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

**Table 3-4**  
**Estimated Average Weekday Traffic and Annual Gross Toll Revenue**  
**I-405 Express Toll Lanes - Option 1 & 4 All Pay with HOV Discount and**  
**Photo Billing Scenario - Total ETL System - Traffic Optimization**

Annual Revenue in Thousands of \$

Year	Average Weekday Trips			Annual Gross Toll Revenue (3,4)	Average Toll (4,5)
	Non-Discount Trips	Discount Trips	Total Trips		
<b>2014</b> (1)	<b>21,645</b>	<b>25,858</b>	<b>47,504</b>	<b>\$8,500</b>	<b>\$0.71</b>
2015 (1)	29,179	33,730	62,909	\$12,309	\$0.78
2016 (1)	32,579	36,440	69,019	\$14,672	\$0.84
2017	34,066	36,870	70,936	\$16,407	\$0.92
<b>2018</b> (2)	<b>62,249</b>	<b>68,431</b>	<b>130,679</b>	<b>\$48,258</b>	<b>\$1.43</b>
2019 (2)	74,998	82,498	157,496	\$61,958	\$1.55
2020 (2)	80,037	88,095	168,132	\$71,502	\$1.69
2021	81,625	89,899	171,524	\$79,222	\$1.83
2022	83,130	91,614	174,744	\$87,666	\$1.99
2023	84,662	93,361	178,023	\$97,012	\$2.16
2024	86,223	95,142	181,365	\$107,355	\$2.35
2025	87,813	96,956	184,769	\$118,802	\$2.55
2026	89,432	98,805	188,237	\$131,472	\$2.77
2027	91,080	100,690	191,770	\$145,494	\$3.01
2028	92,759	102,610	195,369	\$161,013	\$3.27
2029	94,469	104,567	199,036	\$178,190	\$3.55
<b>2030</b>	<b>96,211</b>	<b>106,561</b>	<b>202,772</b>	<b>\$197,202</b>	<b>\$3.85</b>

**Cumulative Revenue**

**\$1,537,034**

- (1) Ramp-up adjustment factors are applied to tolled traffic and revenue for the first three years of operation. Adjustment factors are as follows: 2014 - 78.9% and 2015 -94.9%, and 2016 - 99.9%.
- (2) Ramp-up adjustment factors are applied to tolled traffic and revenue for the first three years of operation after opening of Option 4 configuration. Adjustment factors are as follows: 2018 - 81.9%, and 2019 - 95.6% and 2020 - 99.9%
- (3) For the development of annual toll revenue, a nominal amount equal to 2 percent of average weekday toll revenue was added for each weekend day.
- (4) All toll and revenue are shown in future year dollars.  
Results are based on revised 2011 traffic volume estimates.
- (5) Average Toll is calculated on the basis of total traffic and includes some amount of discount traffic traveling free of charge in certain periods.

Table 4  
Calculation of Ramp-Up Factors for Tolloed Transactions and Revenue - Option1 & 4 All Pay with HOV Discount and Photot Billing Scenario

Definition of Ramp-Up Factors				
Volumes 2014				
Option 1	To Segment			
From Segment	I-405 North	SR167	Grand Total	
I-405 North	43,309		43,309	
SR167		22,471	22,471	
Grand Total	43,309	22,471	65,780	

Volumes 2018				
Option 4	To Segment			
From Segment	I-405 North	I-405 South	SR167	Grand Total
I-405 North	42,144	9,444	386	51,974
I-405 South	10,500	53,930	9,343	73,772
SR167	1,506	9,959	22,437	33,902
Grand Total	54,149	73,333	32,166	159,648

Base Ramp-up Factors from Ramp-Up Analysis		
Year 1		0.578
Year 2		0.898
Year 3		0.997
Year 4		1.000

Notes:  
Base ramp-up factors are based on ramp-up at other toll lane facilities.  
Ramp-up factors for I-405 North, I-405 South and SR167 are calculated as weighted averages based on type of movements and amount of trips.

Option 1				
Ramp-up 2014				
Total Traffic	To Segment			
From Segment	I-405 North	SR167	Grand Total	
I-405 North	0.578	0.789	0.578	
SR167	0.789	1.000	1.000	
Grand Total	0.578	1.000	0.722	

Ramp-up 2015				
Total Traffic	To Segment			
From Segment	I-405 North	SR167	Grand Total	
I-405 North	0.898	0.949	0.898	
SR167	0.949	1.000	1.000	
Grand Total	0.898	1.000	0.933	

Ramp-up 2016				
Total Traffic	To Segment			
From Segment	I-405 North	SR167	Grand Total	
I-405 North	0.997	0.999	0.997	
SR167	0.999	1.000	1.000	
Grand Total	0.997	1.000	0.998	

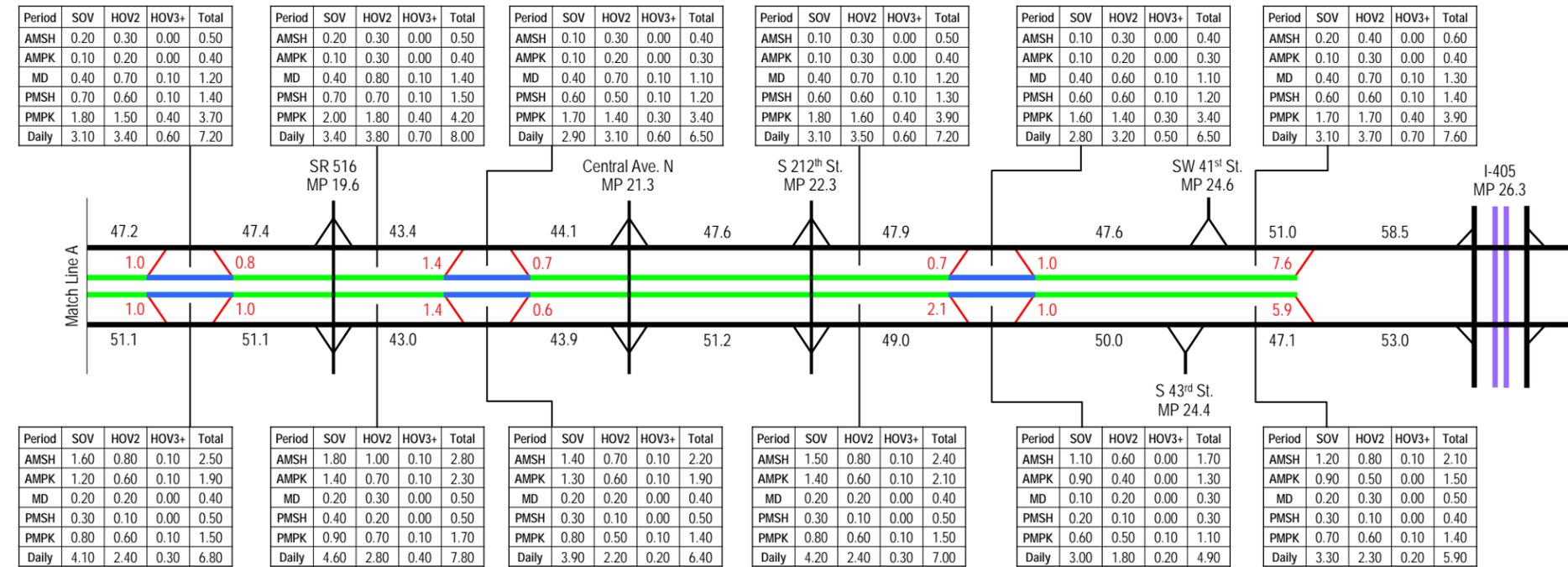
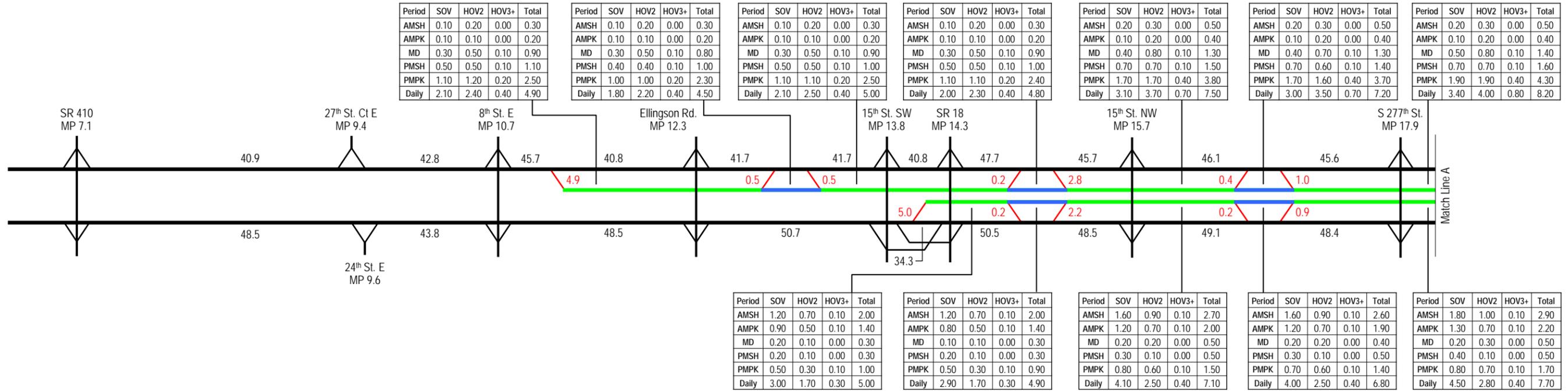
Ramp-up 2017				
Total Traffic	To Segment			
From Segment	I-405 North	SR167	Grand Total	
I-405 North	1.000	1.000	1.000	
SR167	1.000	1.000	1.000	
Grand Total	1.000	1.000	1.000	

Option 4					
Ramp-up 2018					
Total Traffic	To Segment				
From Segment	I-405 North	I-405 South	SR167	Grand Total	
I-405 North	1.000	0.789	1.000	0.962	
I-405 South	0.789	0.578	0.789	0.635	
SR167	1.000	0.789	1.000	0.938	
Grand Total	0.959	0.634	0.939	0.806	

Ramp-up 2019					
Total Traffic	To Segment				
From Segment	I-405 North	I-405 South	SR167	Grand Total	
I-405 North	1.000	0.949	1.000	0.991	
I-405 South	0.949	0.898	0.949	0.912	
SR167	1.000	0.949	1.000	0.985	
Grand Total	0.990	0.911	0.985	0.953	

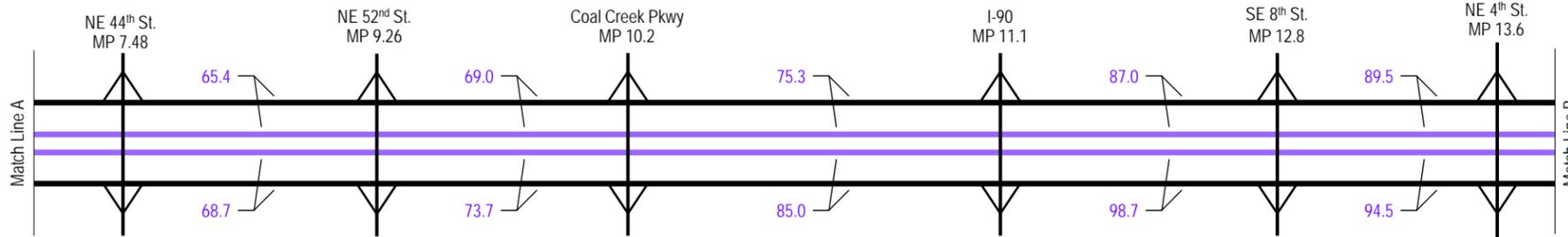
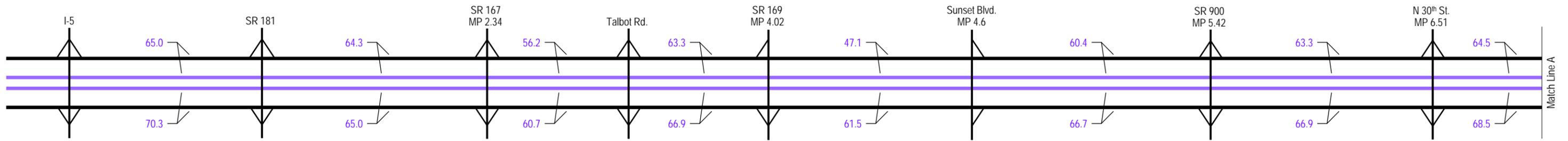
Ramp-up 2020					
Total Traffic	To Segment				
From Segment	I-405 North	I-405 South	SR167	Grand Total	
I-405 North	1.000	0.999	1.000	1.000	
I-405 South	0.999	0.997	0.999	0.997	
SR167	1.000	0.999	1.000	1.000	
Grand Total	1.000	0.997	1.000	0.999	

Ramp-up 2021					
Total Traffic	To Segment				
From Segment	I-405 North	I-405 South	SR167	Grand Total	
I-405 North	1.000	1.000	1.000	1.000	
I-405 South	1.000	1.000	1.000	1.000	
SR167	1.000	1.000	1.000	1.000	
Grand Total	1.000	1.000	1.000	1.000	



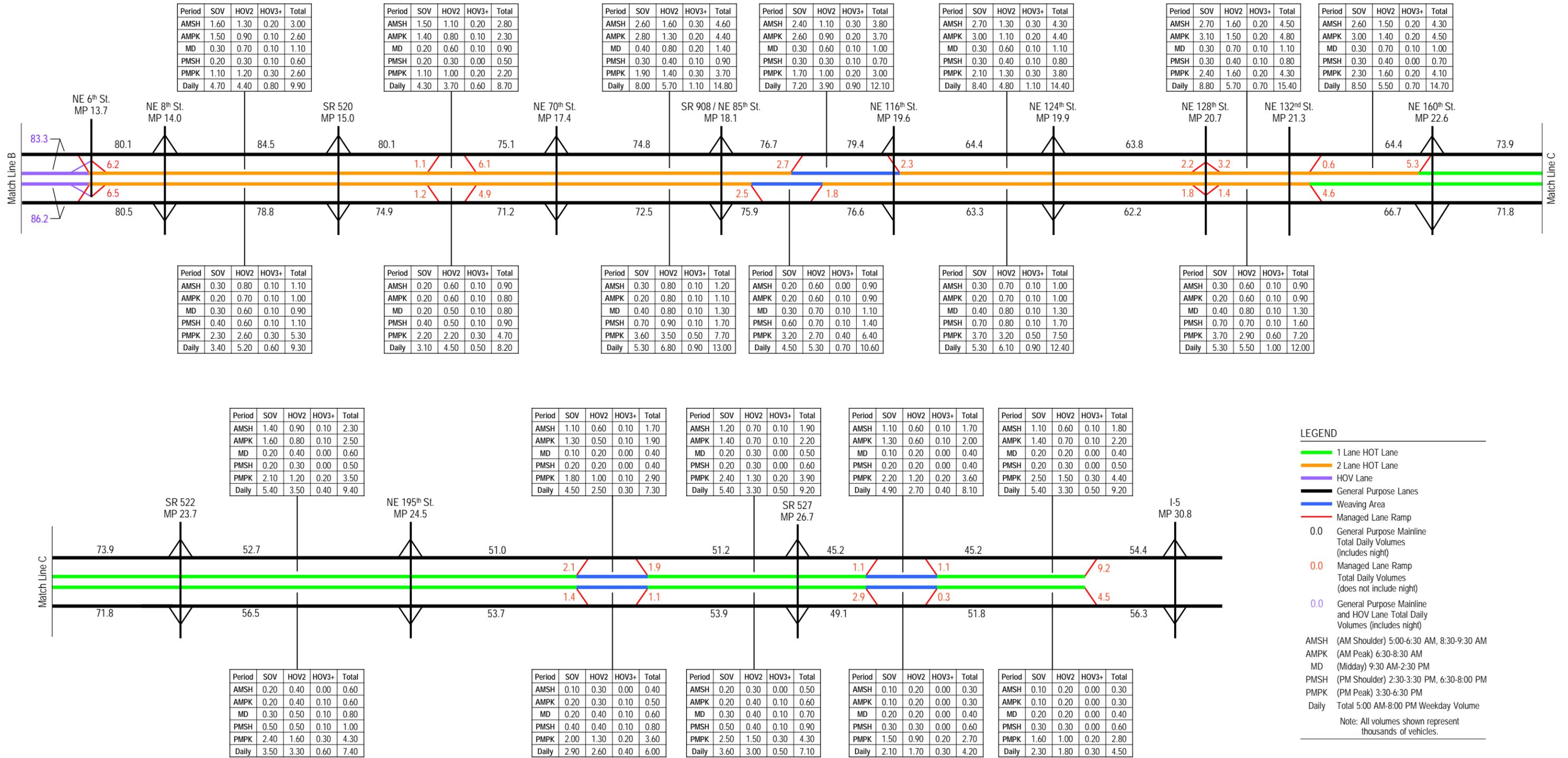
LEGEND

- 1 Lane HOT Lane
  - 2 Lane HOT Lane
  - HOV Lane
  - General Purpose Lanes
  - Weaving Area
  - Managed Lane Ramp
  - 0.0 General Purpose Mainline Total Daily Volumes (includes night)
  - 0.0 Managed Lane Ramp Total Daily Volumes (does not include night)
  - 0.0 General Purpose Mainline and HOV Lane Total Daily Volumes (includes night)
  - AMSH (AM Shoulder) 5:00-6:30 AM, 8:30-9:30 AM
  - AMPK (AM Peak) 6:30-8:30 AM
  - MD (Midday) 9:30 AM-2:30 PM
  - PMSH (PM Shoulder) 2:30-3:30 PM, 6:30-8:00 PM
  - PMPK (PM Peak) 3:30-6:30 PM
  - Daily Total 5:00 AM-8:00 PM Weekday Volume
- Note: All volumes shown represent thousands of vehicles.



LEGEND

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  - 2 Lane HOT Lane
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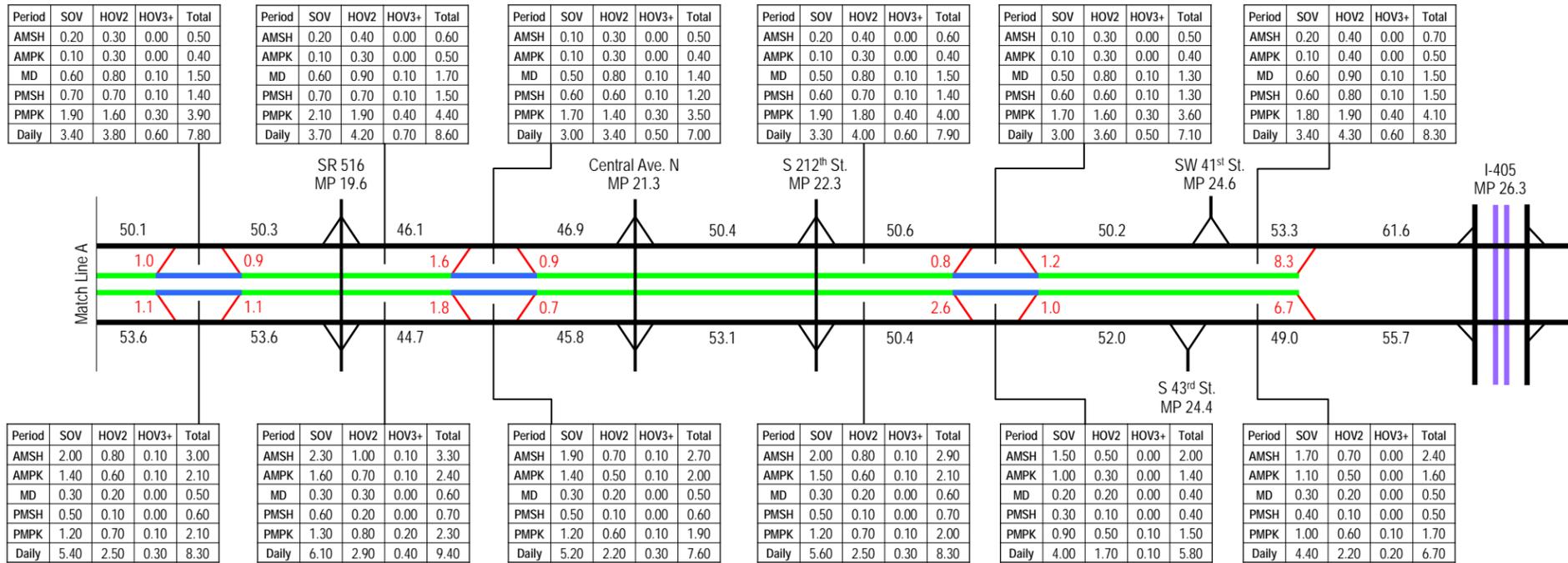
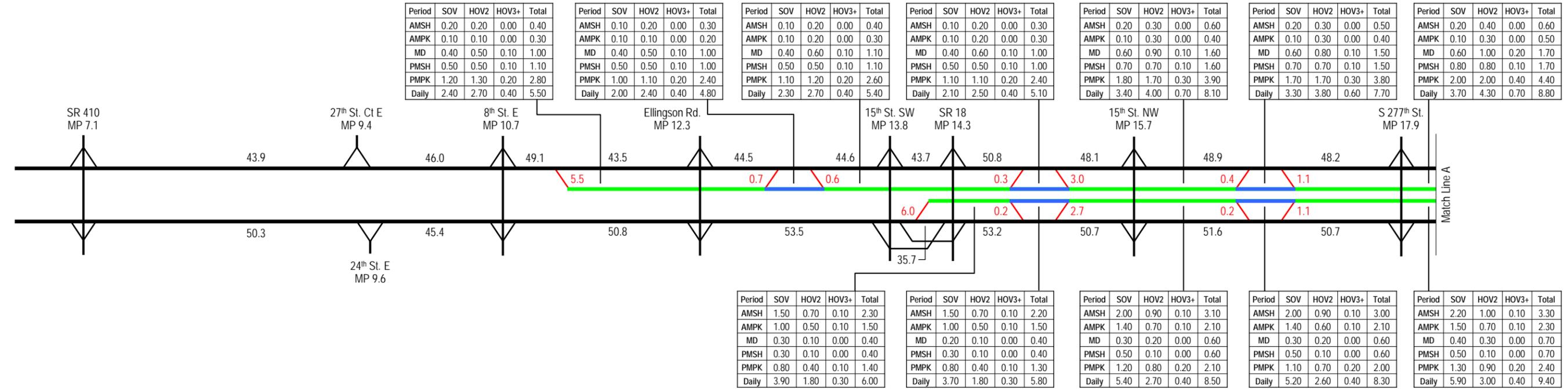
**LEGEND**

- 1 Lane HOT Lane
- 2 Lane HOT Lane
- HOV Lane
- General Purpose Lanes
- Weaving Area
- Managed Lane Ramp
- 0.0 General Purpose Mainline Total Daily Volumes (includes night)
- 0.0 Managed Lane Ramp Total Daily Volumes (does not include night)
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AMSH (AM Shoulder) 5:00-6:30 AM, 8:30-9:30 AM  
 AMPK (AM Peak) 6:30-8:30 AM  
 MD (Midday) 9:30 AM-2:30 PM  
 PMSH (PM Shoulder) 2:30-3:30 PM, 6:30-8:00 PM  
 PMPK (PM Peak) 3:30-6:30 PM  
 Daily Total 5:00 AM-8:00 PM Weekday Volume

Note: All volumes shown represent thousands of vehicles.

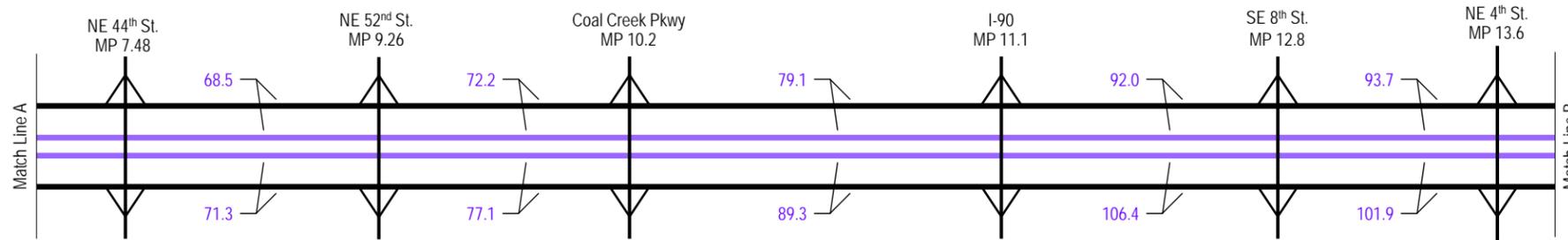
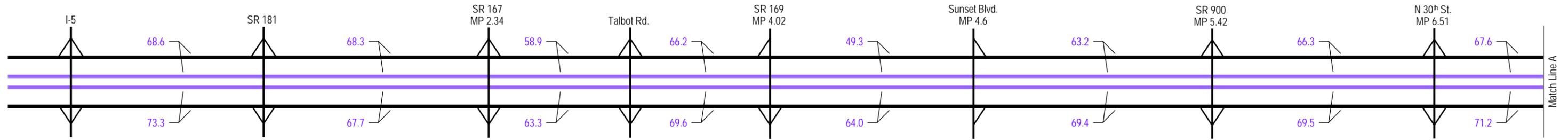




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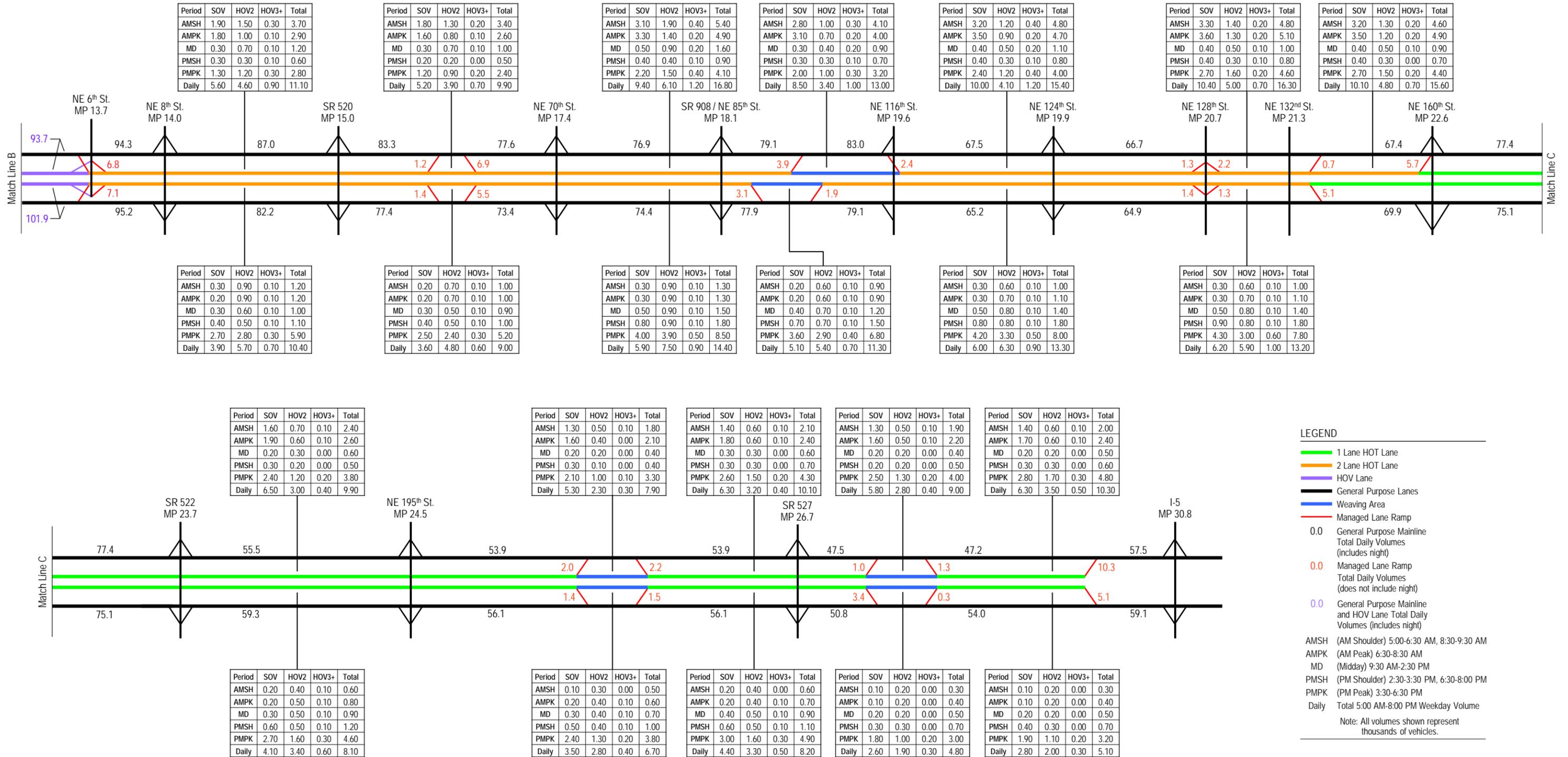
- 1 Lane HOT Lane
  - 2 Lane HOT Lane
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  - General Purpose Lanes
  - Weaving Area
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  - 0.0 General Purpose Mainline Total Daily Volumes (includes night)
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  - Daily Total 5:00 AM-8:00 PM Weekday Volume
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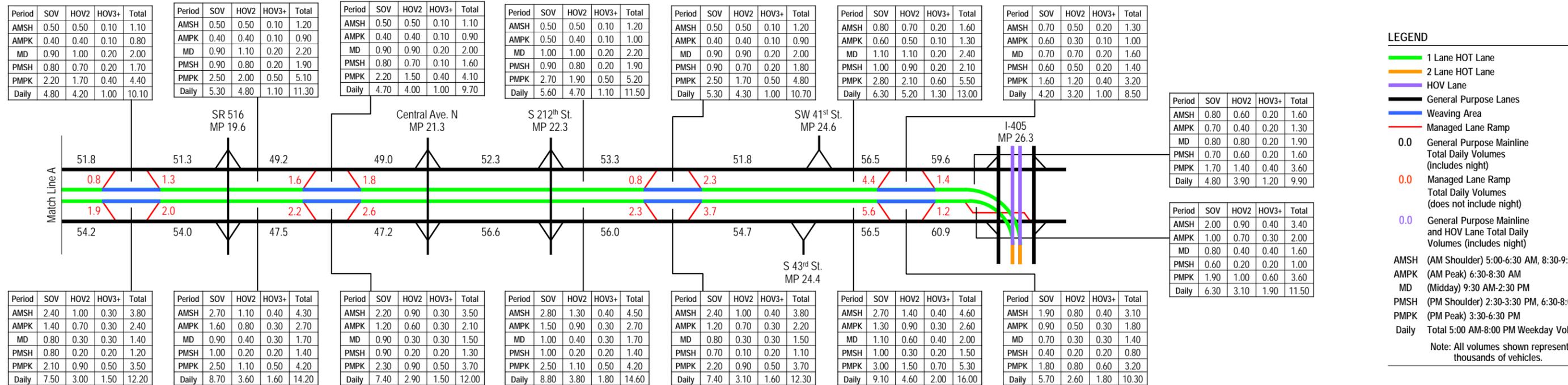
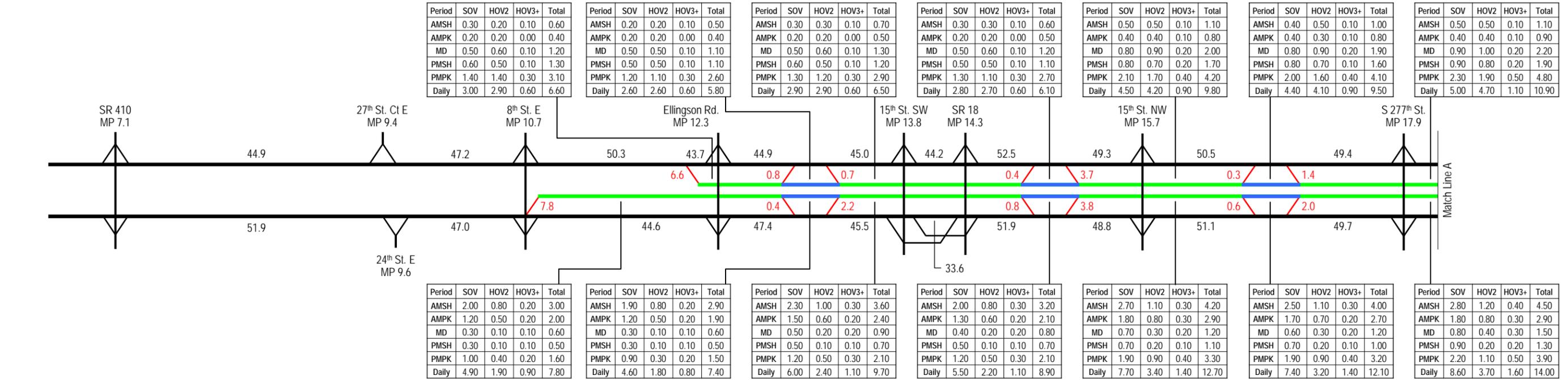




LEGEND

- █ 1 Lane HOT Lane
  - █ 2 Lane HOT Lane
  - █ HOV Lane
  - █ General Purpose Lanes
  - █ Weaving Area
  - █ Managed Lane Ramp
  - 0.0 General Purpose Mainline Total Daily Volumes (includes night)
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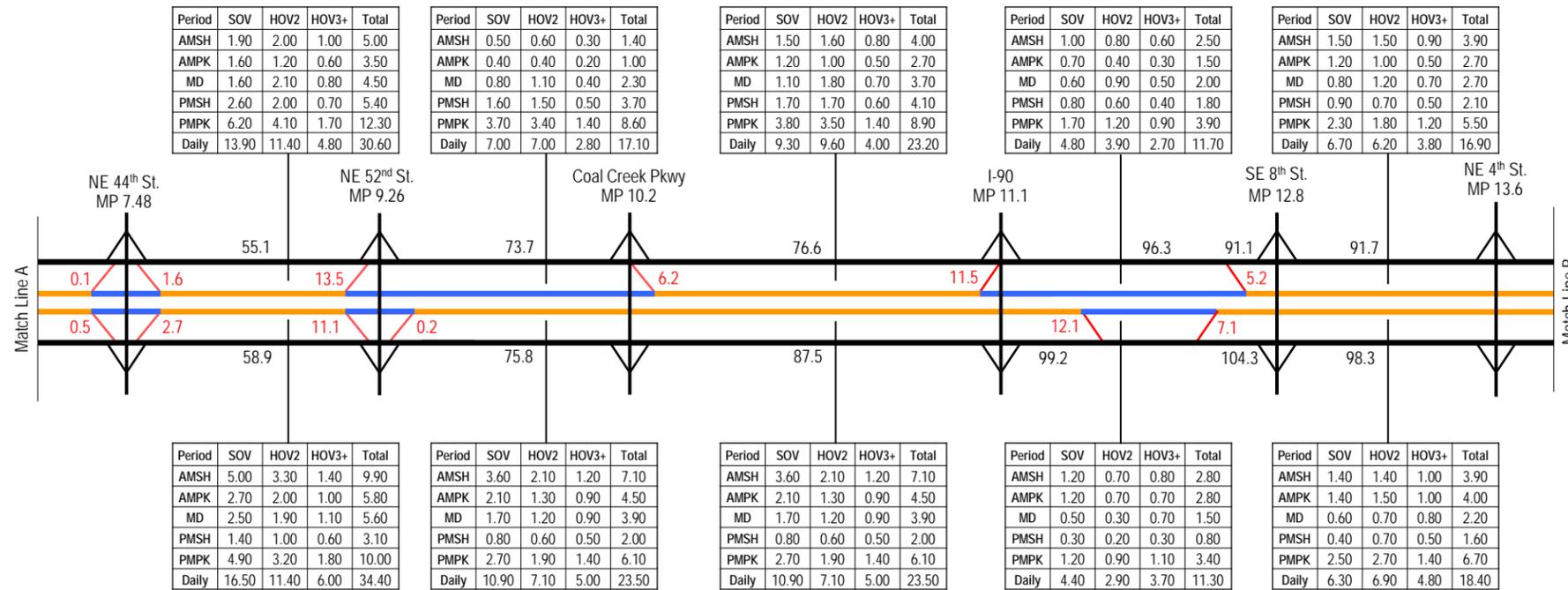
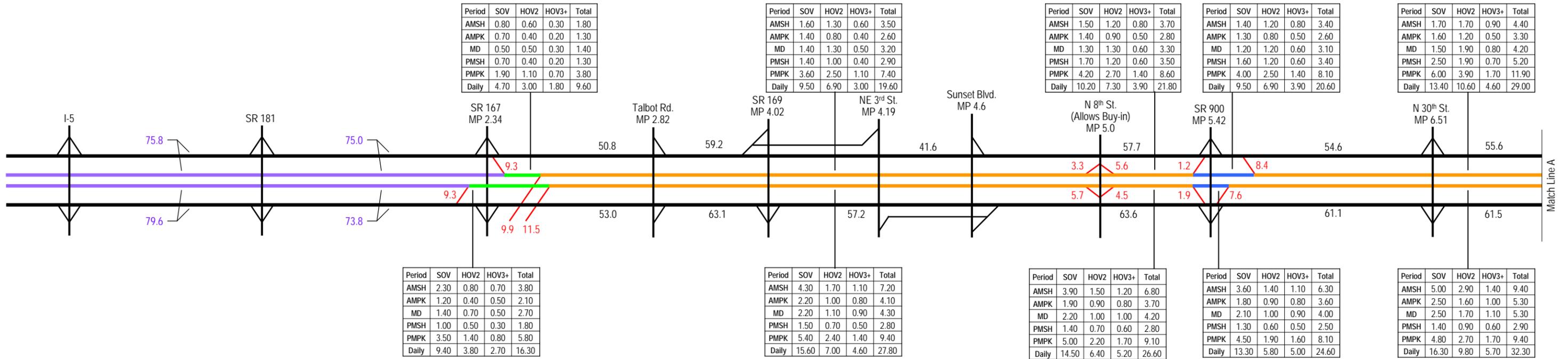


**LEGEND**

- 1 Lane HOT Lane
- 2 Lane HOT Lane
- HOV Lane
- General Purpose Lanes
- Weaving Area
- Managed Lane Ramp
- 0.0 General Purpose Mainline Total Daily Volumes (includes night)
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- Daily Total 5:00 AM-8:00 PM Weekday Volume

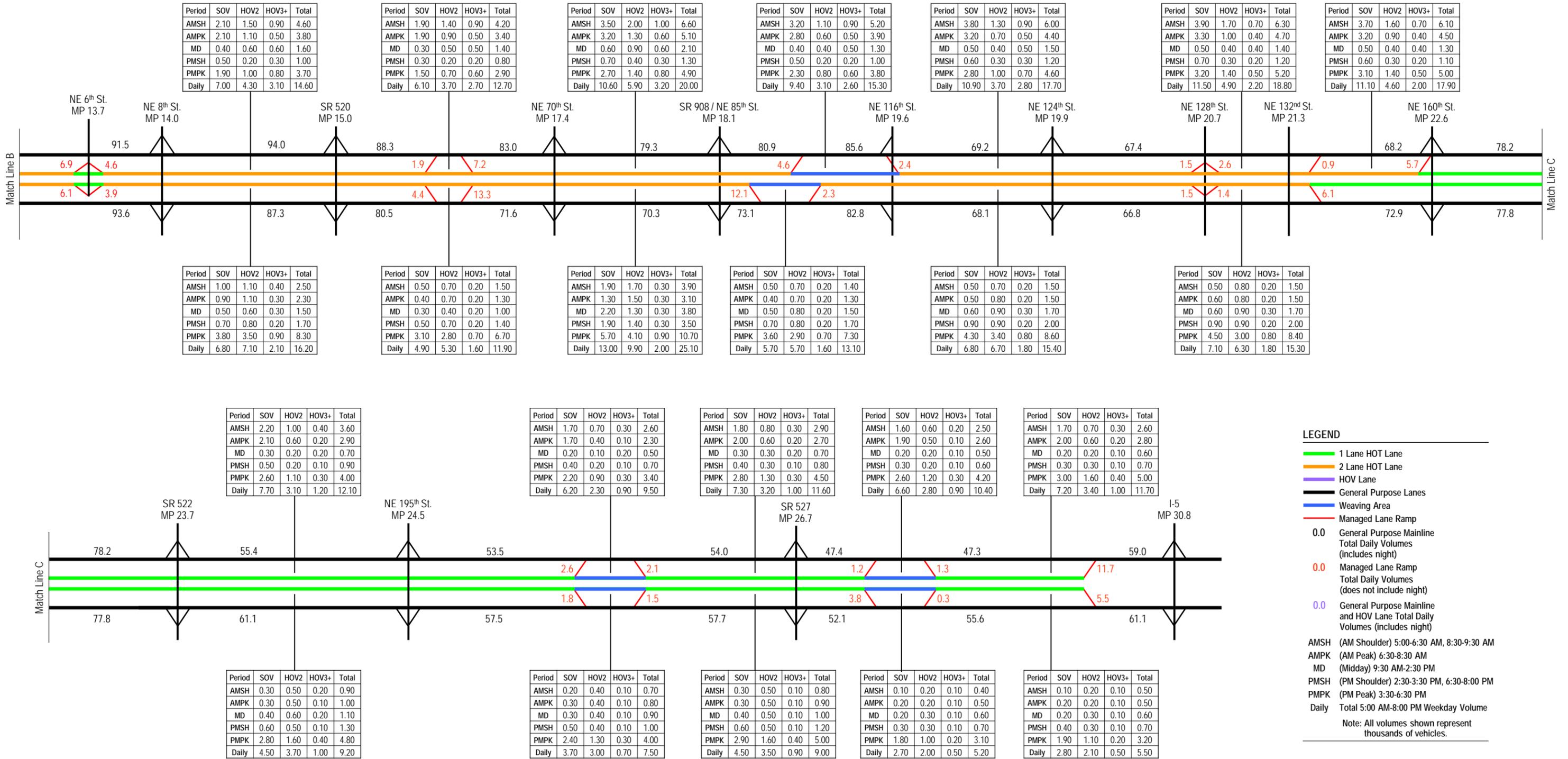
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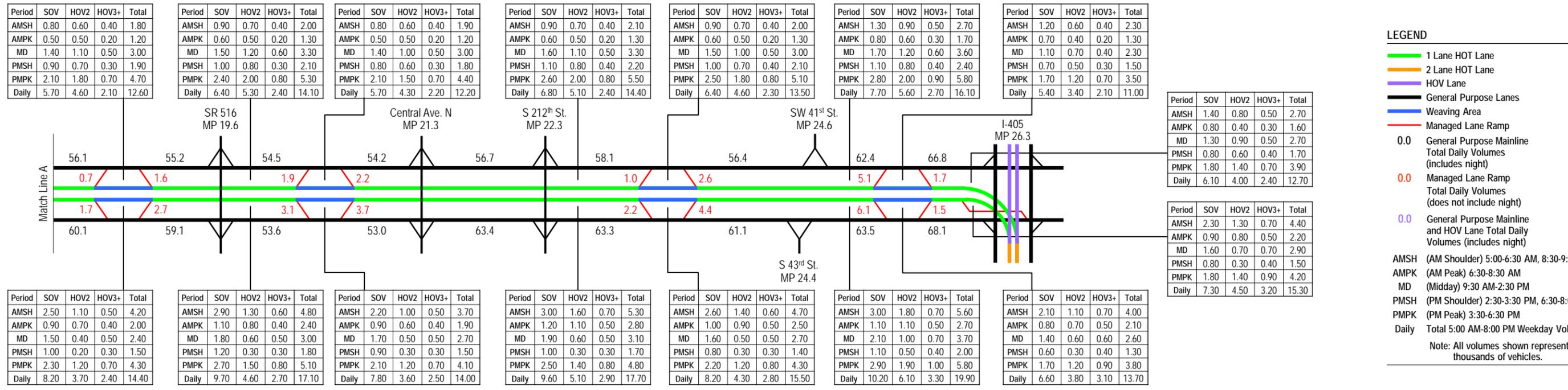
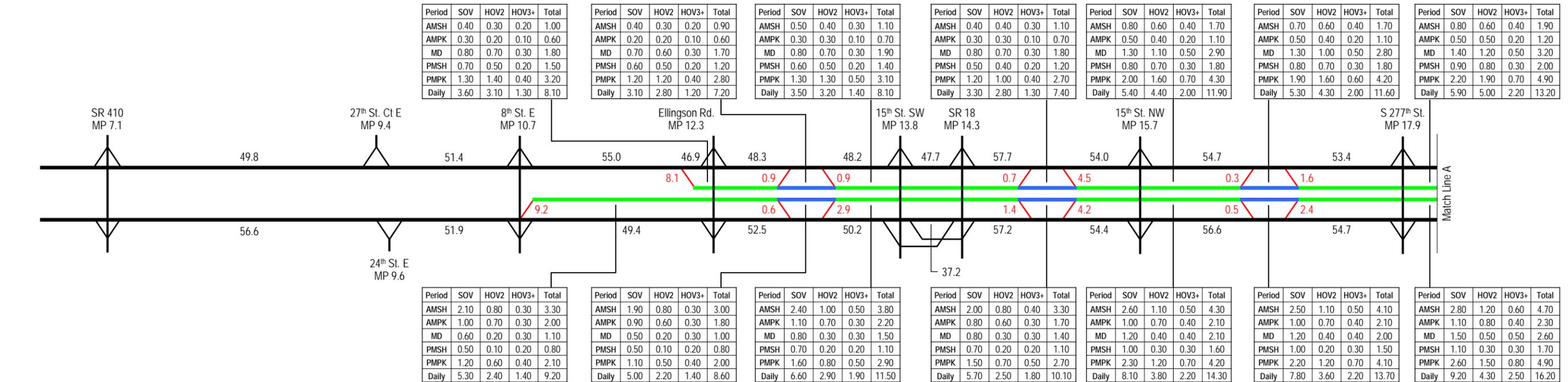




**LEGEND**

- 1 Lane HOT Lane
- 2 Lane HOT Lane
- HOV Lane
- General Purpose Lanes
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- 0.0 General Purpose Mainline Total Daily Volumes (includes night)
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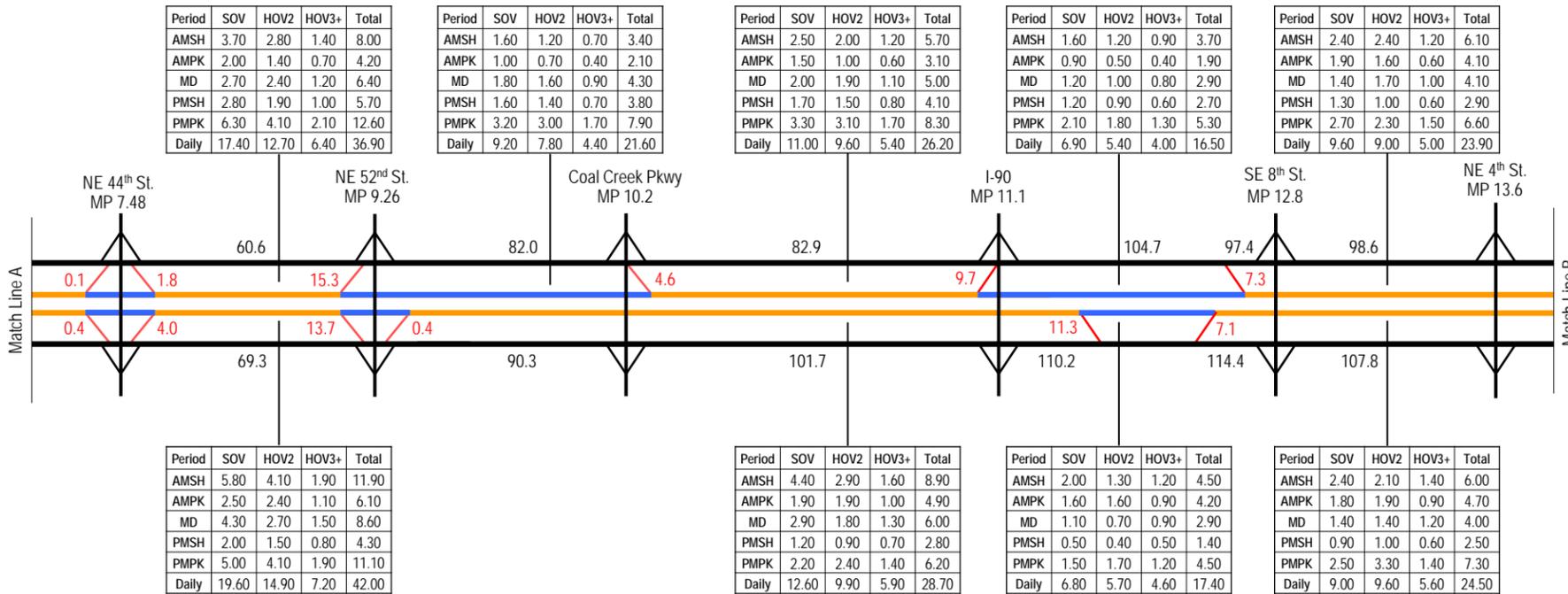
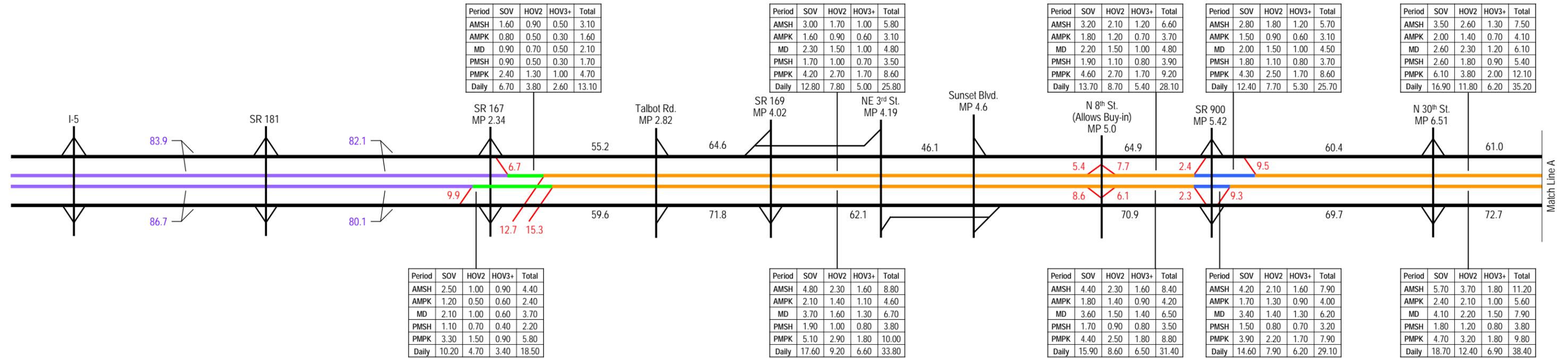


**LEGEND**

- 1 Lane HOT Lane
- 2 Lane HOT Lane
- HOV Lane
- General Purpose Lanes
- Weaving Area
- Managed Lane Ramp
- 0.0 General Purpose Mainline Total Daily Volumes (includes night)
- 0.0 Managed Lane Ramp Total Daily Volumes (does not include night)
- 0.0 General Purpose Mainline and HOV Lane Total Daily Volumes (includes night)
- AMSH (AM Shoulder) 5:00-6:30 AM, 8:30-9:30 AM
- AMPK (AM Peak) 6:30-8:30 AM
- MD (Midday) 9:30 AM-2:30 PM
- PMSH (PM Shoulder) 2:30-3:30 PM, 6:30-8:00 PM
- PMPK (PM Peak) 3:30-6:30 PM
- Daily Total 5:00 AM-8:00 PM Weekday Volume

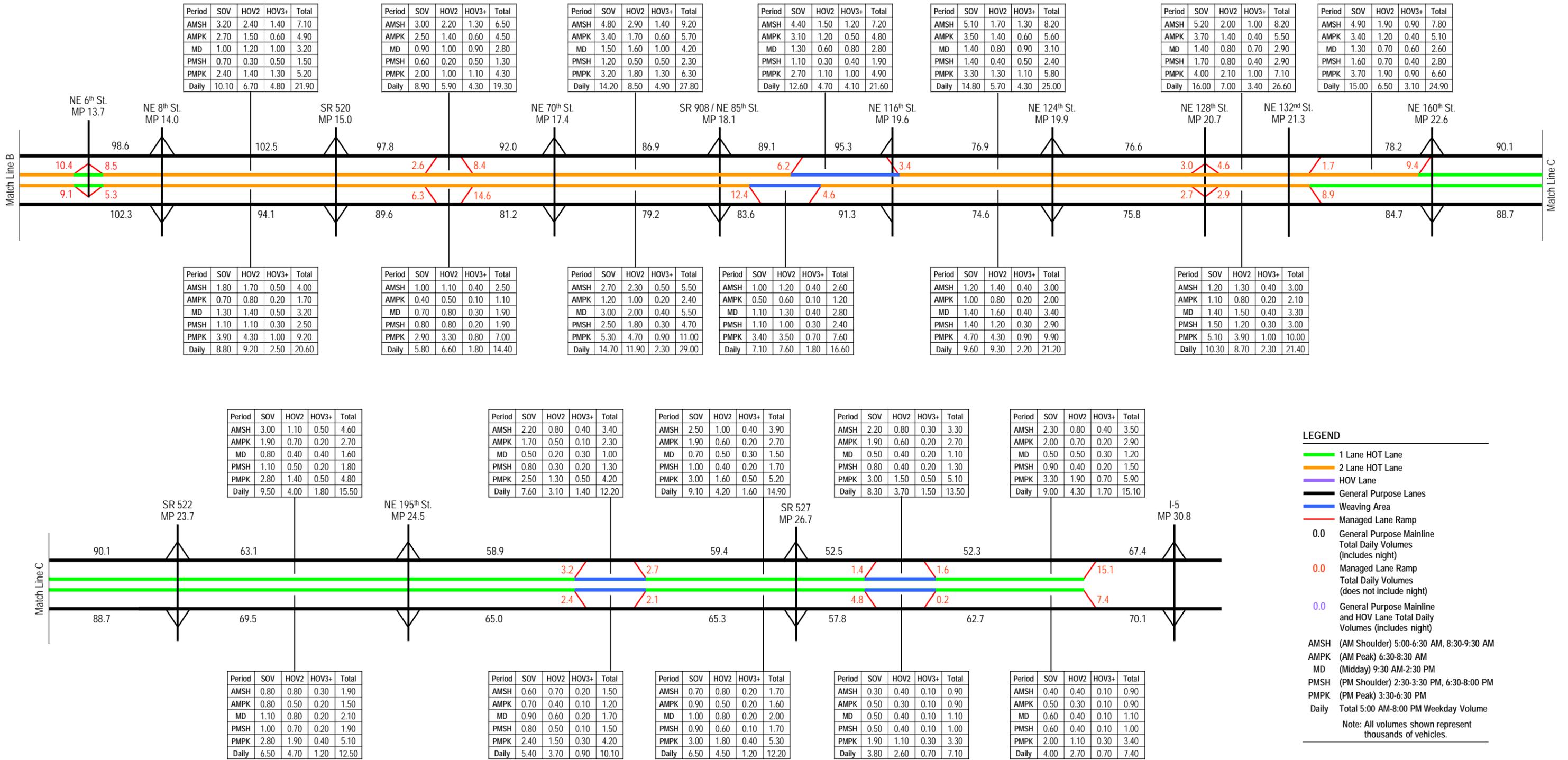
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