

# **Appendix J**

## **Peak Hour Arterial Analysis Worksheets**

Arterial Level of Service: NB Fashion Valley Road

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Levi Cushman Street	III	35	19.5	6.1	25.6	0.15	21.4	C
Avenida Del Rio	III	35	17.4	25.1	42.5	0.14	11.5	E
Friar Roads	III	35	31.2	33.8	65.0	0.26	14.4	D
Total	III		68.1	65.0	133.1	0.55	14.8	D

Arterial Level of Service: SB Fashion Valley Road

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Friar Roads	III	25	16.5	21.7	38.2	0.06	5.9	F
Riverwalk Drive	III	35	31.2	18.7	49.9	0.26	18.7	C
Levi Cushman Street	III	35	17.4	15.6	33.0	0.14	14.8	D
Hotel Circle North	III	35	19.5	9.0	28.5	0.15	19.2	C
Total	III		84.6	65.0	149.6	0.61	14.7	D

## Arterial Level of Service: EB Friar Roads

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
	I	45	70.4	8.1	78.5	0.88	40.3	B
Colusa Street	I	45	32.1	11.1	43.2	0.33	27.6	C
Via Las Cumbres	I	39	36.3	45.0	81.3	0.38	16.8	E
Fashion Valley Road	I	45	59.0	20.5	79.5	0.74	33.4	C
Via De La Moda	I	45	13.3	16.5	29.8	0.13	15.4	F
Avenida De Las Tiend	I	45	26.1	7.6	33.7	0.25	26.8	D
SR-163 SB Ramps	I	45	14.8	23.1	37.9	0.14	13.5	F
SR-163 NB Ramps	I	45	22.9	7.1	30.0	0.22	26.5	D
Frazee Road	I	45	14.1	20.3	34.4	0.14	14.2	F
River Run Drive	I	50	107.1	23.7	130.8	1.49	41.0	B
Fenton Parkway	I	50	21.1	34.0	55.1	0.21	13.8	F
Northside Drive	I	50	28.0	29.4	57.4	0.30	18.5	E
I-15 SB Ramps	I	50	56.0	35.7	91.7	0.78	30.6	C
I-15 NB Ramps	I	50	21.8	1.2	23.0	0.22	34.1	B
Rancho Mission Road	I	50	18.1	18.8	36.9	0.18	17.7	E
Santo Road	I	50	22.2	5.0	27.2	0.22	29.4	C
Riverdale Street	I	50	30.3	18.9	49.2	0.32	23.3	D
Mission Gorge Road	I	50	11.2	23.7	34.9	0.11	11.6	F
Total	I		604.8	349.7	954.5	7.03	26.5	D

## Arterial Level of Service: WB Friar Roads

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Mission Gorge Road	I	50	18.7	56.5	75.2	0.19	9.0	F
Riverdale Street	I	50	11.2	30.5	41.7	0.11	9.7	F
Santo Road	I	50	30.3	25.7	56.0	0.32	20.5	E
Rancho Mission Road	I	50	22.2	4.3	26.5	0.22	30.2	C
I-15 NB Ramps	I	50	18.1	120.0	138.1	0.18	4.7	F
I-15 SB Ramps	I	50	21.8	27.5	49.3	0.22	15.9	F
Northside Drive	I	50	56.0	29.6	85.6	0.78	32.7	C
Fenton Parkway	I	50	28.0	50.0	78.0	0.30	13.6	F
River Run Drive	I	50	21.1	42.7	63.8	0.21	11.9	F
Frazee Road	I	50	108.0	51.9	159.9	1.49	33.5	C
SR-163 NB Ramps	I	45	14.1	21.9	36.0	0.14	13.5	F
Ulric Street	I	45	22.9	36.1	59.0	0.22	13.5	F
Avenida De Las Tiend	I	45	14.8	9.6	24.4	0.14	21.0	D
	I	45	26.1	12.7	38.8	0.25	23.3	D
Fashion Valley Road	I	45	13.3	23.1	36.4	0.13	12.6	F
Via Las Cumbres	I	42	63.5	55.3	118.8	0.74	22.4	D
Colusa Street	I	45	35.6	24.0	59.6	0.38	22.9	D
Napa Street	I	45	32.1	30.0	62.1	0.33	19.2	E
Seaworld Drive	I	45	70.4	27.7	98.1	0.88	32.3	C
Total	I		628.2	679.1	1307.3	7.22	19.9	E

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**Arterial Level of Service: EB Mission Center Road**


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Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Camino Del Rio South	II	40	8.4	45.9	54.3	0.07	4.8	F
I-8 EB Ramp	II	40	5.9	38.7	44.6	0.05	4.2	F
Camino Del Rio N	II	40	16.5	33.6	50.1	0.14	10.3	F
Camino De La Reina	II	40	11.4	31.3	42.7	0.10	8.4	F
Harzard Center Drive	II	40	21.1	20.6	41.7	0.18	15.8	E
Mission Center Ct	II	40	23.5	17.3	40.8	0.20	18.0	D
Friar EB	II	40	5.4	8.6	14.0	0.05	12.2	F
Friar WB	II	40	8.0	6.9	14.9	0.07	16.7	E
Westside Drive	II	40	7.3	25.2	32.5	0.06	7.0	F
Civita Boulevard	II	40	15.0	28.3	43.3	0.13	10.9	F
Phyllis Place	II	40	108.5	5.8	114.3	1.21	38.0	A
Total	II		231.0	262.2	493.2	2.27	16.6	E

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**Arterial Level of Service: SB Mission Center Road**


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Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Phyllis Place	II	40	13.9	8.9	22.8	0.12	19.1	D
Civita Boulevard	II	40	108.5	41.6	150.1	1.21	28.9	B
Westside Drive	II	40	15.0	38.9	53.9	0.13	8.7	F
Friar WB	II	40	7.3	16.8	24.1	0.06	9.4	F
Friar EB	II	40	8.0	5.0	13.0	0.07	19.2	D
Mission Center Ct	II	40	5.4	16.9	22.3	0.05	7.6	F
Harzard Center Drive	II	40	23.5	28.7	52.2	0.20	14.1	E
Camino De La Reina	II	40	21.1	28.6	49.7	0.18	13.3	E
Camino Del Rio N	II	40	11.4	21.5	32.9	0.10	10.9	F
I-8 EB Ramp	II	40	16.5	38.4	54.9	0.14	9.4	F
Camino Del Rio South	II	40	5.9	16.6	22.5	0.05	8.3	F
Total	II		236.5	261.9	498.4	2.32	16.7	E

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 Arterial Level of Service: NB Qualcomm Way
 

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Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Madison Avenue	II	45	24.7	114.0	138.7	0.24	6.2	F
Camino Del Rio South	II	45	40.6	175.5	216.1	0.45	7.4	F
I-8 EB Ramp	II	45	9.8	13.7	23.5	0.09	13.8	E
I-8 WB Ramps	II	45	21.6	39.8	61.4	0.20	11.6	F
	II	45	4.6	47.9	52.5	0.04	2.9	F
Rio San Diego Drive	II	45	26.9	38.7	65.6	0.26	14.2	E
EB Friar	II	45	14.2	15.4	29.6	0.13	15.8	E
WB Friar	II	45	7.4	14.2	21.6	0.07	11.3	F
Civita Boulevard	II	45	10.4	10.5	20.9	0.10	16.4	E
Total	II		160.2	469.7	629.9	1.57	8.9	F

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 Arterial Level of Service: SB Qualcomm Way
 

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Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
WB Friar	II	45	10.4	14.5	24.9	0.10	13.8	E
EB Friar	II	45	7.4	8.5	15.9	0.07	15.3	E
Rio San Diego Drive	II	45	14.2	24.6	38.8	0.13	12.1	F
Camino De La Reina	II	45	26.9	28.8	55.7	0.26	16.7	E
Camino Del Rio N	II	45	4.6	89.8	94.4	0.04	1.6	F
I-8 EB Ramp	II	45	21.6	1.4	23.0	0.20	31.0	B
Camino Del Rio South	II	45	9.8	19.4	29.2	0.09	11.1	F
Madison Avenue	II	45	40.6	30.2	70.8	0.45	22.7	C
Total	II		135.5	217.2	352.7	1.33	13.6	E

## Arterial Level of Service

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### Arterial Level of Service: NB Fashion Valley Road

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Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Levi Cushman Street	III	35	19.5	8.8	28.3	0.15	19.3	C
Avenida Del Rio	III	35	17.4	26.1	43.5	0.14	11.2	E
Friar Roads	III	35	31.2	75.9	107.1	0.26	8.7	F
Total	III		68.1	110.8	178.9	0.55	11.0	E

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### Arterial Level of Service: SB Fashion Valley Road

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Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Friar Roads	III	35	9.0	33.4	42.4	0.06	5.3	F
Riverwalk Drive	III	35	31.2	23.8	55.0	0.26	17.0	D
Levi Cushman Street	III	35	17.4	14.8	32.2	0.14	15.2	D
Hotel Circle North	III	35	19.5	25.0	44.5	0.15	12.3	E
Total	III		77.1	97.0	174.1	0.61	12.6	E

## Arterial Level of Service

### Arterial Level of Service: EB Friar Roads

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Napa Street	I	45	70.4	42.7	113.1	0.88	28.0	C
Colusa Street	I	45	32.1	24.3	56.4	0.33	21.1	D
Via Las Cumbres	I	45	35.6	83.4	119.0	0.38	11.5	F
Fashion Valley Road	I	45	59.0	30.3	89.3	0.74	29.7	C
Via De La Moda	I	45	13.3	7.3	20.6	0.13	22.3	D
Avenida De Las Tiend	I	45	26.1	13.1	39.2	0.25	23.1	D
SR-163 SB Ramps	I	45	14.8	58.4	73.2	0.14	7.0	F
SR-163 NB Ramps	I	45	22.9	6.8	29.7	0.22	26.7	D
Frazee Road	I	45	14.1	39.2	53.3	0.14	9.1	F
River Run Drive	I	50	107.1	54.9	162.0	1.49	33.1	C
Fenton Parkway	I	50	21.1	43.8	64.9	0.21	11.7	F
Northside Drive	I	50	28.0	56.6	84.6	0.30	12.6	F
I-15 SB Ramps	I	50	56.0	39.1	95.1	0.78	29.5	C
I-15 NB Ramps	I	50	21.8	16.5	38.3	0.22	20.5	E
Rancho Mission Road	I	50	18.1	62.6	80.7	0.18	8.1	F
Santo Road	I	50	22.2	17.5	39.7	0.22	20.2	E
Riverdale Street	I	50	30.3	77.8	108.1	0.32	10.6	F
Mission Gorge Road	I	50	11.2	6.1	17.3	0.11	23.4	D
Total	I		604.1	680.4	1284.5	7.03	19.7	E

### Arterial Level of Service: WB Friar Roads

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Mission Gorge Road	I	50	18.7	49.2	67.9	0.19	9.9	F
Riverdale Street	I	50	11.2	39.4	50.6	0.11	8.0	F
Santo Road	I	50	30.3	22.5	52.8	0.32	21.7	D
Rancho Mission Road	I	50	22.2	8.1	30.3	0.22	26.4	D
I-15 NB Ramps	I	50	18.1	46.5	64.6	0.18	10.1	F
I-15 SB Ramps	I	50	21.8	63.6	85.4	0.22	9.2	F
Northside Drive	I	50	56.0	19.8	75.8	0.78	37.0	B
Fenton Parkway	I	50	28.0	30.9	58.9	0.30	18.0	E
River Run Drive	I	50	21.1	19.8	40.9	0.21	18.6	E
Frazee Road	I	50	108.0	44.2	152.2	1.49	35.2	B
SR-163 NB Ramps	I	45	14.1	14.5	28.6	0.14	17.0	E
Ulric Street	I	45	22.9	39.2	62.1	0.22	12.8	F
Avenida De Las Tiend	I	45	14.8	8.4	23.2	0.14	22.1	D
Via De La Moda	I	45	26.1	3.6	29.7	0.25	30.4	C
Fashion Valley Road	I	45	13.3	13.8	27.1	0.13	17.0	E
Via Las Cumbres	I	45	59.0	46.4	105.4	0.74	25.2	D
Colusa Street	I	45	35.6	14.0	49.6	0.38	27.5	C
Napa Street	I	45	32.1	47.7	79.8	0.33	14.9	F
Seaworld Drive	I	45	70.4	39.4	109.8	0.88	28.8	C
Total	I		623.7	571.0	1194.7	7.22	21.7	D

## Arterial Level of Service

### Arterial Level of Service: EB Mission Center Road

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Camino Del Rio South	II	40	8.4	86.3	94.7	0.07	2.8	F
I-8 EB Ramp	II	40	5.9	59.8	65.7	0.05	2.8	F
Camino Del Rio N	II	40	16.5	36.1	52.6	0.14	9.8	F
Camino De La Reina	II	40	11.4	48.8	60.2	0.10	5.9	F
Harzard Center Drive	II	40	21.1	22.5	43.6	0.18	15.1	E
Mission Center Ct	II	40	23.5	27.3	50.8	0.20	14.5	E
Friar EB	II	40	5.4	28.7	34.1	0.05	5.0	F
Friar WB	II	40	8.0	10.4	18.4	0.07	13.6	E
Westside Drive	II	40	7.3	26.4	33.7	0.06	6.7	F
Civita Boulevard	II	40	15.0	42.5	57.5	0.13	8.2	F
Phyllis Place	II	40	108.5	9.7	118.2	1.21	36.7	A
Total	II		231.0	398.5	629.5	2.27	13.0	F

### Arterial Level of Service: SB Mission Center Road

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Civita Boulevard	II	40	108.5	27.1	135.6	1.21	32.0	B
Westside Drive	II	40	15.0	55.2	70.2	0.13	6.7	F
Friar WB	II	40	7.3	25.2	32.5	0.06	7.0	F
Friar EB	II	40	8.0	15.5	23.5	0.07	10.6	F
Mission Center Ct	II	40	5.4	19.7	25.1	0.05	6.8	F
Harzard Center Drive	II	40	23.5	54.4	77.9	0.20	9.4	F
Camino De La Reina	II	40	21.1	43.7	64.8	0.18	10.2	F
Camino Del Rio N	II	40	11.4	41.0	52.4	0.10	6.8	F
I-8 EB Ramp	II	40	16.5	46.3	62.8	0.14	8.2	F
Camino Del Rio South	II	40	5.9	13.1	19.0	0.05	9.8	F
Total	II		222.6	341.2	563.8	2.20	14.0	E



## Arterial Level of Service

### Arterial Level of Service: NB Qualcomm Way

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Madison Avenue	II	45	24.7	36.6	61.3	0.24	14.0	E
Camino Del Rio South	II	45	40.6	52.8	93.4	0.45	17.2	D
I-8 EB Ramp	II	45	9.8	7.3	17.1	0.09	19.0	D
I-8 WB Ramps	II	45	21.6	31.9	53.5	0.20	13.3	E
Camino Del Rio North	II	45	4.6	64.3	68.9	0.04	2.2	F
Rio San Diego Drive	II	45	26.9	60.3	87.2	0.26	10.7	F
EB Friar	II	45	14.2	41.3	55.5	0.13	8.5	F
WB Friar	II	45	7.4	18.8	26.2	0.07	9.3	F
Civita Boulevard	II	45	10.4	33.9	44.3	0.10	7.8	F
Total	II		160.2	347.2	507.4	1.57	11.1	F

### Arterial Level of Service: SB Qualcomm Way

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
WB Friar	II	45	10.4	43.9	54.3	0.10	6.3	F
EB Friar	II	45	7.4	10.5	17.9	0.07	13.6	E
Rio San Diego Drive	II	45	14.2	33.1	47.3	0.13	9.9	F
Camino De La Reina	II	45	26.9	36.6	63.5	0.26	14.6	E
Camino Del Rio N	II	45	4.6	151.1	155.7	0.04	1.0	F
I-8 EB Ramp	II	45	21.6	11.1	32.7	0.20	21.8	D
Camino Del Rio South	II	45	9.8	36.7	46.5	0.09	7.0	F
Madison Avenue	II	45	40.6	45.5	86.1	0.45	18.6	D
Total	II		135.5	368.5	504.0	1.33	9.5	F