

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	22 June 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration 01

Barrier									Points										
Name	Type	Height		If Wall	If Berm	Run:Rise		Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	\$ per	\$ per	Top	Run:Rise	\$ per			X	Y	Z	at	Seg	Ht	Perturbs	On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
		ft	ft	Area	Vol.	ft	ft:ft	Length			ft	ft	ft	ft	ment				tions?
				\$/sq ft	\$/cu yd			\$/ft											
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0		
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					

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Existing Wall 1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0		
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0		
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00					
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0		
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0		
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00					
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0		
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0		
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0		
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0		
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00					
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0		
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00					
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0		
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0		
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00					
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0		
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	97	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	96	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	99	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	98	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	101	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	100	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 7	W	0.00	99.99	0.00				0.00	point103	103	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		

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									point102	102	6,768,134.5	1,835,263.8	1,022.00	15.00				
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	105	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	104	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	107	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	106	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	111	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	110	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	113	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	112	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	115	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	114	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point117	117	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point116	116	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point119	119	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point118	118	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point121	121	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point120	120	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	123	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	122	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point125	125	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point124	124	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point127	127	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point126	126	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point129	129	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point128	128	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 31	W	0.00	99.99	0.00			0.00	point131	131	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point130	130	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00			0.00	point133	133	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point132	132	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00			0.00	point135	135	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point134	134	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00			0.00	point137	137	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point136	136	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00			0.00	point139	139	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point138	138	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00			0.00	point141	141	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point140	140	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00			0.00	point143	143	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point142	142	6,765,577.0	1,837,024.2	979.30	15.00					
Existing wall 9	W	0.00	99.99	0.00			0.00	point97	149	6,766,517.5	1,835,485.5	986.00	6.00	0.00	0	0		
								point98	150	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
								point99	151	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
								point100	152	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
								point101	153	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
								point102	154	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	155	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	156	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	157	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	158	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		

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									point119	159	6,767,311.5	1,836,437.0	1,007.20	6.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point252	160	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
								point118	161	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
								point117	162	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
								point116	163	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point253	164	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
								point115	165	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
								point114	166	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
								point113	167	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
								point217	168	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
								point218	169	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
								point219	170	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
								point220	171	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
								point221	172	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
								point245	173	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
								point246	174	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
								point247	175	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
								point248	176	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
								point249	177	6,767,675.5	1,836,811.1	1,011.00	6.00					
Barrier56	W	0.00	99.99	0.00			0.00	point256	178	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
								point250	179	6,767,715.0	1,836,788.8	1,013.50	5.00					
Barrier57	W	0.00	99.99	0.00			0.00	point255	180	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
								point251	181	6,767,816.0	1,836,961.2	1,016.00	5.00					

RESULTS: BARRIER DESCRIPTIONS

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LSA Associates, Inc.											
Teak Kim											

22 June 2011

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RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Calibration 01

BARRIER DESIGN: INPUT HEIGHTS

Barriers											
Name	Type	Heights along Barrier			Length	If Wall	If Berm	Top	Run:Rise	Cost	
		Min	Avg	Max							
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$	
Existing Wall 5a	W	5.30	5.30	5.30	252	1336					0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777					0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664					0
Existing Wall 4b	W	12.60	12.60	12.60	698	8794					0
Existing Wall 8	W	5.30	5.30	5.30	768	4070					0
Existing Wall 7	W	5.30	5.30	5.30	253	1341					0
Building Barrier 9	W	15.00	15.00	15.00	298	4475					0
Existing Wall 1	W	6.00	6.00	6.00	407	2443					0
Existing Wall 2	W	5.00	5.00	5.00	143	716					0
Existing Wall 3	W	5.00	5.00	5.00	160	801					0
Building Barrier 1	W	20.00	20.00	20.00	144	2875					0
Building Barrier 2	W	25.00	25.00	25.00	137	3432					0
Building Barrier 3	W	25.00	25.00	25.00	122	3046					0
Building Barrier 4	W	25.00	25.00	25.00	384	9597					0
Building Barrier 5	W	20.00	20.00	20.00	145	2899					0
Building Barrier 6	W	15.00	15.00	15.00	79	1178					0
Building Barrier 18	W	15.00	15.00	15.00	116	1744					0
Building Barrier 16	W	15.00	15.00	15.00	92	1379					0
Building Barrier 19	W	15.00	15.00	15.00	145	2168					0
Building Barrier 20	W	15.00	15.00	15.00	51	770					0
Building Barrier 17	W	15.00	15.00	15.00	222	3330					0
Building Barrier 8	W	15.00	15.00	15.00	430	6443					0
Building Barrier 28	W	15.00	15.00	15.00	60	905					0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point27	27	5.30	5.30	5.30	81	427				0
		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 9	W	point44	44	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	point46	46	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	point48	48	5.00	5.00	5.00	78	388				0
		point49	49	5.00	5.00	5.00	65	327				0
Existing Wall 3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 28	W	point97	97	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	point99	99	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	point101	101	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	point103	103	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	point105	105	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	point107	107	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	point111	111	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	point113	113	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	115	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	point117	117	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	point119	119	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	point121	121	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	point123	123	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	point125	125	15.00	15.00	15.00	45	679				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 26	W	point127	127	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	point129	129	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	point131	131	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	point133	133	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	point135	135	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	point137	137	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	point139	139	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	point141	141	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	point143	143	15.00	15.00	15.00	46	687				0
Existing wall 9	W	point97	149	6.00	6.00	6.00	59	351				0
		point98	150	6.00	6.00	6.00	129	771				0
		point99	151	6.00	6.00	6.00	109	654				0
		point100	152	6.00	6.00	6.00	120	720				0
		point101	153	6.00	6.00	6.00	115	687				0
Building Barrier 12	W	point126	155	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	point121	157	6.00	6.00	6.00	54	321				0
		point120	158	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	160	7.00	7.00	7.00	29	201				0
		point118	161	7.00	7.00	7.00	72	507				0
		point117	162	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	164	6.00	6.00	6.00	72	430				0
		point115	165	6.00	6.00	6.00	10	60				0
		point114	166	6.00	6.00	6.00	81	485				0
		point113	167	6.00	6.00	6.00	3	20				0
		point217	168	6.00	6.00	6.00	36	214				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point218	169	6.00	6.00	6.00	9	51				0
		point219	170	6.00	6.00	6.00	27	164				0
		point220	171	6.00	6.00	6.00	3	20				0
		point221	172	6.00	6.00	6.00	8	49				0
		point245	173	6.00	6.00	6.00	81	483				0
		point246	174	6.00	6.00	6.00	124	743				0
		point247	175	6.00	6.00	6.00	44	262				0
		point248	176	6.00	6.00	6.00	72	435				0
Barrier56	W	point256	178	5.00	5.00	5.00	45	227				0
Barrier57	W	point255	180	5.00	5.00	5.00	127	633				0

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.			22 June 2011			
Teak Kim			TNM 2.5			
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:			I-215/Barton Road Interchange			
RUN:			Calibration 01			
Building Row			Points			
Name	Average Height	Building Percent	No.	Coordinates (ground)		
	ft	%		X	Y	Z
				ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building11	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

INPUT: RECEIVERS

I-215/Barton Road Interchange

LSA Associates, Inc.							22 June 2011				
Teak Kim							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		I-215/Barton Road Interchange									
RUN:		Calibration 01									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	
			ft	ft	ft	ft	dB	dB	dB	dB	
Rec-1/M-1	1	1	6,765,442.0	1,833,931.0	961.00	5.00	0.00	66	12.0	5.0	Y
R-131	173	1	6,763,952.0	1,832,516.0	939.00	5.00	0.00	66	12.0	5.0	Y
R-132	174	1	6,763,508.5	1,832,790.1	931.00	5.00	0.00	66	12.0	5.0	Y
R-133	175	1	6,764,050.5	1,833,322.9	940.50	5.00	0.00	66	12.0	5.0	Y
R-134	176	1	6,765,092.0	1,833,721.5	951.50	5.00	0.00	66	12.0	5.0	Y
R-135	177	1	6,764,850.5	1,834,201.0	954.50	5.00	0.00	66	12.0	5.0	Y
R-136	178	1	6,765,410.5	1,834,805.2	966.10	5.00	0.00	66	12.0	5.0	Y
R-137	179	1	6,765,924.0	1,834,797.2	972.00	5.00	0.00	66	12.0	5.0	Y

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average	
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average	
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average	
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average	
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average	
		point46	46	6,768,365.0	1,837,698.0	998.70				Average	
		point45	45	6,768,518.0	1,837,862.1	995.60				Average	
		point44	44	6,768,674.5	1,838,022.8	993.30				Average	
		point43	43	6,768,823.5	1,838,166.2	990.10				Average	
		point42	42	6,768,980.5	1,838,313.8	985.20				Average	
		point41	41	6,769,152.5	1,838,462.6	979.50				Average	
		point40	40	6,769,332.5	1,838,617.5	973.70				Average	
		point39	39	6,769,526.0	1,838,779.8	966.90					
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average	
		point114	114	6,769,306.0	1,838,640.9	973.60				Average	
		point113	113	6,769,128.0	1,838,488.2	979.80				Average	
		point112	112	6,768,955.5	1,838,338.1	985.60				Average	
		point111	111	6,768,799.0	1,838,190.2	990.80				Average	
		point110	110	6,768,650.0	1,838,046.2	993.50				Average	
		point109	109	6,768,494.0	1,837,885.0	996.00				Average	
		point108	108	6,768,337.5	1,837,718.9	998.70				Average	
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average	
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average	
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average	
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average	
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average	
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average	
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average	
		point100	100	6,767,004.0	1,836,280.2	999.10				Average	
		point99	99	6,766,841.5	1,836,104.6	992.10				Average	
		point98	98	6,766,703.0	1,835,954.8	984.90				Average	
		point97	97	6,766,530.0	1,835,768.2	976.10				Average	
		point96	96	6,766,361.5	1,835,587.1	967.90				Average	
		point95	95	6,766,157.5	1,835,368.2	963.10				Average	
		point94	94	6,766,012.5	1,835,211.8	963.00				Average	
		point93	93	6,765,850.5	1,835,035.8	962.30				Average	
		point92	92	6,765,661.0	1,834,831.2	961.80				Average	
		point91	91	6,765,487.5	1,834,644.8	961.20				Average	
		point90	90	6,765,305.5	1,834,449.4	960.40				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

INPUT: ROADWAYS

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		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00				Average	
		point256	256	6,764,014.5	1,835,366.4	953.50				Average	
		point255	255	6,764,147.0	1,835,365.4	953.00				Average	
		point254	254	6,764,493.5	1,835,375.1	965.50				Average	
		point253	253	6,764,793.0	1,835,380.8	979.70				Average	
		point252	252	6,765,094.5	1,835,380.8	972.00				Average	
		point251	251	6,765,404.5	1,835,380.8	973.00				Average	
		point250	250	6,765,697.0	1,835,379.8	977.30				Average	
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50				Average	
		point421	421	6,766,581.5	1,835,376.4	986.50				Average	
		point259	259	6,766,754.0	1,835,377.4	989.00				Average	
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100	Average	
		point292	292	6,766,902.5	1,835,415.9	992.60				Average	
		point291	291	6,766,755.5	1,835,415.0	989.20				Average	
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00				Average	
		point432	432	6,766,404.5	1,835,412.9	984.70				Average	
		point303	303	6,766,337.5	1,835,409.2	985.00				Average	Y
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50				Average	
		point312	312	6,765,393.5	1,835,410.8	972.50				Average	
		point311	311	6,765,428.5	1,835,587.1	971.00				Average	
		point310	310	6,765,470.0	1,835,755.1	970.50				Average	
		point309	309	6,765,519.5	1,836,010.5	972.00				Average	
		point308	308	6,765,571.5	1,836,274.8	974.00				Average	
		point307	307	6,765,596.5	1,836,444.6	976.00				Average	
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100	Average	
		point403	403	6,765,707.0	1,837,002.5	978.70				Average	
		point404	404	6,765,713.5	1,837,015.4	978.00				Average	
		point319	319	6,765,725.5	1,837,037.5	977.40				Average	
		point318	318	6,765,777.5	1,837,150.5	969.50				Average	
		point317	317	6,765,800.5	1,837,183.2	969.50				Average	
		point316	316	6,765,829.5	1,837,210.5	969.50				Average	
		point315	315	6,765,853.0	1,837,247.2	969.50				Average	
		point314	314	6,765,892.0	1,837,349.2	969.50				Average	

INPUT: ROADWAYS

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		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

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		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

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		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

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		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

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I-215/Barton Road Interchange

Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40					
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average
		point550	550	6,765,886.0	1,835,407.6	981.00				
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50				Average
		point37	37	6,763,604.0	1,832,456.6	914.50				Average
		point36	36	6,763,754.5	1,832,654.2	915.10				Average
		point35	35	6,763,905.5	1,832,849.8	916.10				Average
		point34	34	6,764,066.0	1,833,033.0	917.00				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point33	33	6,764,233.5	1,833,215.5	918.50				Average	
		point32	32	6,764,413.0	1,833,410.2	925.00				Average	
		point31	31	6,764,553.5	1,833,563.0	932.00				Average	
		point30	30	6,764,706.0	1,833,725.1	940.00				Average	
		point29	29	6,764,871.5	1,833,906.1	949.00				Average	
		point28	28	6,765,012.0	1,834,058.8	955.00				Average	
		point27	27	6,765,176.5	1,834,233.2	958.90				Average	
		point26	26	6,765,345.5	1,834,416.4	960.20				Average	
		point25	25	6,765,527.5	1,834,612.0	960.80				Average	
		point534	534	6,765,700.5	1,834,797.2	961.60				Average	
		point23	23	6,765,891.0	1,835,003.8	962.10				Average	
		point22	22	6,766,048.5	1,835,174.6	962.90				Average	
		point21	21	6,766,219.5	1,835,357.8	963.20				Average	
		point533	533	6,766,311.0	1,835,456.6	965.60				Average	
		point20	20	6,766,402.5	1,835,555.5	968.00				Average	
		point19	19	6,766,570.5	1,835,735.8	976.00				Average	
		point18	18	6,766,741.5	1,835,920.5	985.00				Average	
		point17	17	6,766,882.5	1,836,070.9	992.00				Average	
		point16	16	6,767,044.5	1,836,249.0	999.00				Average	
		point15	15	6,767,225.5	1,836,441.8	1,004.00				Average	
		point14	14	6,767,407.5	1,836,639.4	1,006.20				Average	
		point13	13	6,767,568.5	1,836,812.4	1,006.40				Average	
		point12	12	6,767,719.0	1,836,975.2	1,007.10				Average	
		point11	11	6,767,875.5	1,837,142.4	1,007.00				Average	
		point10	10	6,768,047.0	1,837,328.5	1,004.90				Average	
		point9	9	6,768,198.0	1,837,490.8	1,002.00				Average	
		point8	8	6,768,380.0	1,837,686.9	998.40				Average	
		point7	7	6,768,531.0	1,837,849.8	995.40				Average	
		point6	6	6,768,688.0	1,838,010.4	993.00				Average	
		point5	5	6,768,836.5	1,838,152.2	990.00				Average	
		point4	4	6,768,994.0	1,838,300.6	985.00				Average	
		point3	3	6,769,165.5	1,838,448.9	979.50				Average	
		point2	2	6,769,345.5	1,838,603.8	973.60				Average	
		point1	1	6,769,539.0	1,838,765.9	966.40					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50				Average	
		point156	156	6,769,292.0	1,838,653.6	973.10				Average	
		point155	155	6,769,114.0	1,838,500.6	979.80				Average	
		point154	154	6,768,941.5	1,838,350.8	985.80				Average	
		point153	153	6,768,787.0	1,838,201.9	991.00				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point152	152	6,768,637.5	1,838,059.1	994.00				Average
		point151	151	6,768,481.5	1,837,899.8	996.50				Average
		point150	150	6,768,324.5	1,837,731.5	998.70				Average
		point149	149	6,768,146.5	1,837,539.2	1,001.90				Average
		point148	148	6,767,994.0	1,837,374.8	1,004.80				Average
		point147	147	6,767,820.5	1,837,188.2	1,006.90				Average
		point146	146	6,767,668.0	1,837,022.6	1,007.10				Average
		point145	145	6,767,517.0	1,836,860.6	1,006.70				Average
		point144	144	6,767,356.0	1,836,686.2	1,006.20				Average
		point532	532	6,767,172.0	1,836,487.9	1,004.00				Average
		point142	142	6,766,991.0	1,836,292.2	998.90				Average
		point141	141	6,766,828.5	1,836,116.8	992.00				Average
		point140	140	6,766,689.5	1,835,966.8	984.50				Average
		point139	139	6,766,517.0	1,835,781.0	976.00				Average
		point138	138	6,766,348.0	1,835,599.4	967.80				Average
		point531	531	6,766,133.0	1,835,368.1	963.30				Average
		point136	136	6,765,999.5	1,835,223.5	962.80				Average
		point135	135	6,765,837.0	1,835,048.1	962.20				Average
		point134	134	6,765,647.5	1,834,843.9	961.70				Average
		point133	133	6,765,474.0	1,834,657.2	960.90				Average
		point132	132	6,765,292.5	1,834,461.8	960.40				Average
		point131	131	6,765,124.5	1,834,280.2	958.70				Average
		point130	130	6,764,960.5	1,834,102.9	954.80				Average
		point129	129	6,764,819.5	1,833,952.1	948.40				Average
		point128	128	6,764,650.5	1,833,769.1	939.80				Average
		point127	127	6,764,500.5	1,833,607.5	932.00				Average
		point126	126	6,764,368.5	1,833,463.8	925.50				Average
		point125	125	6,764,179.0	1,833,259.9	919.50				Average
		point124	124	6,764,013.0	1,833,077.6	918.20				Average
		point123	123	6,763,850.5	1,832,887.6	917.10				Average
		point122	122	6,763,711.5	1,832,715.1	916.30				Average
		point121	121	6,763,546.0	1,832,498.2	915.40				Average
		point120	120	6,763,362.0	1,832,252.2	915.40				Average
La Crosse NB	12.0	point557	557	6,765,466.0	1,834,747.4	966.00				Average
		point556	556	6,765,633.5	1,834,955.2	969.00				Average
		point555	555	6,765,713.0	1,835,053.5	971.00				Average
		point554	554	6,765,794.0	1,835,144.2	973.00				Average
		point553	553	6,765,864.5	1,835,255.5	976.00				Average
		point552	552	6,765,905.5	1,835,377.1	979.00				Average

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse SB	12.0	point563	563	6,765,862.0	1,835,377.6	979.00				Average	
		point562	562	6,765,848.0	1,835,263.8	975.50				Average	
		point561	561	6,765,777.5	1,835,155.6	972.50				Average	
		point560	560	6,765,702.5	1,835,060.4	970.50				Average	
		point559	559	6,765,620.5	1,834,962.1	969.00				Average	
		point565	565	6,765,452.0	1,834,758.2	964.50					

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

LSA Associates, Inc.						22 June 2011							
Teak Kim						TNM 2.5							
						Calculated with TNM 2.5							
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:			I-215/Barton Road Interchange										
RUN:			Calibration 01										
BARRIER DESIGN:			INPUT HEIGHTS						Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.				
ATMOSPHERICS:			68 deg F, 50% RH										
Receiver													
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing		With Barrier				
							Calculated	Crit'n	Type Impact	Calculated LAeq1h	Noise Reduction		
								Sub'l Inc			Calculated	Goal	Calculated minus Goal
				dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Rec-1/M-1		1	1	0.0	66.9	66	66.9	12	Snd Lvl	66.9	0.0	5	-5.0
R-131		173	1	0.0	70.0	66	70.0	12	Snd Lvl	70.0	0.0	5	-5.0
R-132		174	1	0.0	71.3	66	71.3	12	Snd Lvl	71.3	0.0	5	-5.0
R-133		175	1	0.0	74.7	66	74.7	12	Snd Lvl	74.7	0.0	5	-5.0
R-134		176	1	0.0	70.5	66	70.5	12	Snd Lvl	70.5	0.0	5	-5.0
R-135		177	1	0.0	73.7	66	73.7	12	Snd Lvl	73.7	0.0	5	-5.0
R-136		178	1	0.0	73.7	66	73.7	12	Snd Lvl	73.7	0.0	5	-5.0
R-137		179	1	0.0	64.3	66	64.3	12	----	64.3	0.0	5	-5.0
Dwelling Units			# DUs	Noise Reduction									
				Min	Avg	Max							
				dB	dB	dB							
All Selected			8	0.0	0.0	0.0							
All Impacted			7	0.0	0.0	0.0							
All that meet NR Goal			0	0.0	0.0	0.0							

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

LSA Associates, Inc.			22 June 2011	
Teak Kim			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	I-215/Barton Road Interchange			
RUN:	Calibration 01			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,764,381.5	1,833,279.8	942.00
	2	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,016.5	1,833,967.0	943.00
	6	6,765,092.0	1,834,055.4	945.00
	7	6,765,258.0	1,834,237.6	954.00
	8	6,765,400.0	1,834,395.8	960.00
	9	6,765,541.0	1,834,544.6	964.00
	10	6,765,738.0	1,834,749.4	972.00
Terrain Line6	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	16	6,766,314.0	1,835,368.2	984.00
Terrain Line7	22	6,766,507.0	1,835,493.1	986.00
	23	6,766,573.5	1,835,591.8	987.00
	24	6,766,630.0	1,835,668.0	987.00
	25	6,766,679.5	1,835,723.8	989.00
	26	6,766,758.0	1,835,818.9	990.00
	27	6,766,863.0	1,835,948.1	994.00
	28	6,766,975.0	1,836,081.6	998.00
	29	6,767,078.5	1,836,200.6	1,001.00
	30	6,767,228.0	1,836,360.2	1,004.00
	31	6,767,393.0	1,836,514.6	1,010.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00
	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line15	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00

INPUT: TERRAIN LINES**I-215/Barton Road Interchange**

	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line14	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line11	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
	99	6,766,171.0	1,835,508.8	985.00
	100	6,766,103.5	1,835,420.1	982.00
Terrain Line8	102	6,767,393.0	1,836,514.6	1,010.00
	32	6,767,432.0	1,836,546.8	1,010.00
Terrain Line9	106	6,767,811.0	1,836,956.8	1,015.00
	37	6,767,911.0	1,837,066.2	1,017.00
	38	6,767,981.5	1,837,102.2	1,020.00
Terrain Line5	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,206.5	1,835,144.8	975.00
Terrain Line13	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,149.0	1,836,589.2	992.00
Terrain Line12	125	6,765,595.0	1,835,437.0	980.00
	126	6,765,566.0	1,835,436.2	979.30
	127	6,765,445.5	1,835,448.2	976.50

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.				22 June 2011									
Teak Kim				TNM 2.5									
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		I-215/Barton Road Interchange											
RUN:		Calibration 01											
Roadway		Points											
Name		Name	No.	Segment									
				Autos		MTrucks		HTrucks		Buses		Motorcycles	
				V	S	V	S	V	S	V	S	V	S
				veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3		point76	76	1580	60	48	47	59	53	0	0	0	0
		point75	75	1580	60	48	47	59	53	0	0	0	0
		point74	74	1580	60	48	47	59	53	0	0	0	0
		point73	73	1580	60	48	47	59	53	0	0	0	0
		point72	72	1580	60	48	47	59	53	0	0	0	0
		point71	71	1580	60	48	47	59	53	0	0	0	0
		point70	70	1580	60	48	47	59	53	0	0	0	0
		point69	69	1580	60	48	47	59	53	0	0	0	0
		point68	68	1580	60	48	47	59	53	0	0	0	0
		point67	67	1580	60	48	47	59	53	0	0	0	0
		point66	66	1580	60	48	47	59	53	0	0	0	0
		point65	65	1580	60	48	47	59	53	0	0	0	0
		point64	64	1580	60	48	47	59	53	0	0	0	0
		point63	63	1580	60	48	47	59	53	0	0	0	0
		point62	62	1580	60	48	47	59	53	0	0	0	0
		point61	61	1580	60	48	47	59	53	0	0	0	0
		point60	60	1580	60	48	47	59	53	0	0	0	0
		point59	59	1580	60	48	47	59	53	0	0	0	0
		point58	58	1580	60	48	47	59	53	0	0	0	0
		point57	57	1580	60	48	47	59	53	0	0	0	0
		point56	56	1580	60	48	47	59	53	0	0	0	0
		point55	55	1580	60	48	47	59	53	0	0	0	0
		point54	54	1580	60	48	47	59	53	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1580	60	48	47	59	53	0	0	0	0
	point52	52	1580	60	48	47	59	53	0	0	0	0
	point51	51	1580	60	48	47	59	53	0	0	0	0
	point50	50	1580	60	48	47	59	53	0	0	0	0
	point49	49	1580	60	48	47	59	53	0	0	0	0
	point48	48	1580	60	48	47	59	53	0	0	0	0
	point47	47	1580	60	48	47	59	53	0	0	0	0
	point46	46	1580	60	48	47	59	53	0	0	0	0
	point45	45	1580	60	48	47	59	53	0	0	0	0
	point44	44	1580	60	48	47	59	53	0	0	0	0
	point43	43	1580	60	48	47	59	53	0	0	0	0
	point42	42	1580	60	48	47	59	53	0	0	0	0
	point41	41	1580	60	48	47	59	53	0	0	0	0
	point40	40	1580	60	48	47	59	53	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1477	60	40	47	59	53	0	0	0	0
	point114	114	1477	60	40	47	59	53	0	0	0	0
	point113	113	1477	60	40	47	59	53	0	0	0	0
	point112	112	1477	60	40	47	59	53	0	0	0	0
	point111	111	1477	60	40	47	59	53	0	0	0	0
	point110	110	1477	60	40	47	59	53	0	0	0	0
	point109	109	1477	60	40	47	59	53	0	0	0	0
	point108	108	1477	60	40	47	59	53	0	0	0	0
	point107	107	1477	60	40	47	59	53	0	0	0	0
	point106	106	1477	60	40	47	59	53	0	0	0	0
	point105	105	1477	60	40	47	59	53	0	0	0	0
	point104	104	1477	60	40	47	59	53	0	0	0	0
	point103	103	1477	60	40	47	59	53	0	0	0	0
	point102	102	1477	60	40	47	59	53	0	0	0	0
	point101	101	1477	60	40	47	59	53	0	0	0	0
	point100	100	1477	60	40	47	59	53	0	0	0	0
	point99	99	1477	60	40	47	59	53	0	0	0	0
	point98	98	1477	60	40	47	59	53	0	0	0	0
	point97	97	1477	60	40	47	59	53	0	0	0	0
	point96	96	1477	60	40	47	59	53	0	0	0	0
	point95	95	1477	60	40	47	59	53	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1477	60	40	47	59	53	0	0	0	0
	point93	93	1477	60	40	47	59	53	0	0	0	0
	point92	92	1477	60	40	47	59	53	0	0	0	0
	point91	91	1477	60	40	47	59	53	0	0	0	0
	point90	90	1477	60	40	47	59	53	0	0	0	0
	point89	89	1477	60	40	47	59	53	0	0	0	0
	point88	88	1477	60	40	47	59	53	0	0	0	0
	point87	87	1477	60	40	47	59	53	0	0	0	0
	point86	86	1477	60	40	47	59	53	0	0	0	0
	point85	85	1477	60	40	47	59	53	0	0	0	0
	point84	84	1477	60	40	47	59	53	0	0	0	0
	point83	83	1477	60	40	47	59	53	0	0	0	0
	point82	82	1477	60	40	47	59	53	0	0	0	0
	point81	81	1477	60	40	47	59	53	0	0	0	0
	point80	80	1477	60	40	47	59	53	0	0	0	0
	point79	79	1477	60	40	47	59	53	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point435	435	0	0	0	0	0	0	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	0	0	0	0	0	0	0	0	0	0
	point223	223	0	0	0	0	0	0	0	0	0	0
	point224	224	0	0	0	0	0	0	0	0	0	0
	point225	225	0	0	0	0	0	0	0	0	0	0
	point226	226	0	0	0	0	0	0	0	0	0	0
	point227	227	0	0	0	0	0	0	0	0	0	0
	point228	228	0	0	0	0	0	0	0	0	0	0
	point420	420	0	0	0	0	0	0	0	0	0	0
	point229	229										
Barton EB	point257	257	0	0	0	0	0	0	0	0	0	0
	point256	256	0	0	0	0	0	0	0	0	0	0
	point255	255	0	0	0	0	0	0	0	0	0	0
	point254	254	0	0	0	0	0	0	0	0	0	0
	point253	253	0	0	0	0	0	0	0	0	0	0
	point252	252	0	0	0	0	0	0	0	0	0	0
	point251	251	0	0	0	0	0	0	0	0	0	0
	point250	250	0	0	0	0	0	0	0	0	0	0
	point436	436										
Barton EB	point260	260	0	0	0	0	0	0	0	0	0	0
	point421	421	0	0	0	0	0	0	0	0	0	0
	point259	259	0	0	0	0	0	0	0	0	0	0
	point258	258										
Barton WB	point397	397	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point291	291	0	0	0	0	0	0	0	0	0	0
	point290	290										
Barton WB	point304	304	0	0	0	0	0	0	0	0	0	0
	point432	432	0	0	0	0	0	0	0	0	0	0
	point303	303	0	0	0	0	0	0	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	0	0	0	0	0	0	0	0	0	0
	point312	312	0	0	0	0	0	0	0	0	0	0
	point311	311	0	0	0	0	0	0	0	0	0	0
	point310	310	0	0	0	0	0	0	0	0	0	0
	point309	309	0	0	0	0	0	0	0	0	0	0
	point308	308	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	0	0	0	0	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	0	0	0	0	0	0	0	0	0	0
	point403	403	0	0	0	0	0	0	0	0	0	0
	point404	404	0	0	0	0	0	0	0	0	0	0
	point319	319	0	0	0	0	0	0	0	0	0	0
	point318	318	0	0	0	0	0	0	0	0	0	0
	point317	317	0	0	0	0	0	0	0	0	0	0
	point316	316	0	0	0	0	0	0	0	0	0	0
	point315	315	0	0	0	0	0	0	0	0	0	0
	point314	314	0	0	0	0	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	0	0	0	0	0	0	0	0	0	0
	point406	406	0	0	0	0	0	0	0	0	0	0
	point407	407	0	0	0	0	0	0	0	0	0	0
	point326	326	0	0	0	0	0	0	0	0	0	0
	point325	325	0	0	0	0	0	0	0	0	0	0
	point324	324	0	0	0	0	0	0	0	0	0	0
	point323	323	0	0	0	0	0	0	0	0	0	0
	point322	322	0	0	0	0	0	0	0	0	0	0
	point321	321	0	0	0	0	0	0	0	0	0	0
	point425	425	0	0	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	0	0	0	0	0	0	0	0	0	0
	point332	332	0	0	0	0	0	0	0	0	0	0
	point331	331	0	0	0	0	0	0	0	0	0	0
	point330	330	0	0	0	0	0	0	0	0	0	0
	point329	329	0	0	0	0	0	0	0	0	0	0
	point328	328	0	0	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB	point426	426	0	0	0	0	0	0	0	0	0	0
	point363	363	0	0	0	0	0	0	0	0	0	0
	point364	364	0	0	0	0	0	0	0	0	0	0
	point365	365	0	0	0	0	0	0	0	0	0	0
	point366	366	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	0	0	0	0	0	0	0	0	0	0
	point368	368	0	0	0	0	0	0	0	0	0	0
	point430	430	0	0	0	0	0	0	0	0	0	0
	point369	369										
Michigan NB	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB	point431	431	0	0	0	0	0	0	0	0	0	0
	point374	374	0	0	0	0	0	0	0	0	0	0
	point375	375	0	0	0	0	0	0	0	0	0	0
	point376	376	0	0	0	0	0	0	0	0	0	0
	point377	377	0	0	0	0	0	0	0	0	0	0
	point378	378	0	0	0	0	0	0	0	0	0	0
	point379	379	0	0	0	0	0	0	0	0	0	0
	point380	380										
Michigan SB	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point441	441	0	0	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	0	0	0	0	0	0	0	0	0	0
	point249	249	0	0	0	0	0	0	0	0	0	0
	point248	248	0	0	0	0	0	0	0	0	0	0
	point247	247										
Barton WB	point445	445	0	0	0	0	0	0	0	0	0	0
	point434	434	0	0	0	0	0	0	0	0	0	0
	point301	301	0	0	0	0	0	0	0	0	0	0
	point300	300	0	0	0	0	0	0	0	0	0	0
	point422	422	0	0	0	0	0	0	0	0	0	0
	point423	423	0	0	0	0	0	0	0	0	0	0
	point299	299	0	0	0	0	0	0	0	0	0	0
	point298	298	0	0	0	0	0	0	0	0	0	0
	point297	297	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point294	294										
Barton EB	point398	398	0	0	0	0	0	0	0	0	0	0
	point428	428	0	0	0	0	0	0	0	0	0	0
	point429	429	0	0	0	0	0	0	0	0	0	0
	point268	268	0	0	0	0	0	0	0	0	0	0
	point267	267	0	0	0	0	0	0	0	0	0	0
	point266	266	0	0	0	0	0	0	0	0	0	0
	point265	265	0	0	0	0	0	0	0	0	0	0
	point264	264	0	0	0	0	0	0	0	0	0	0
	point263	263	0	0	0	0	0	0	0	0	0	0
	point262	262	0	0	0	0	0	0	0	0	0	0
	point439	439	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	0	0	0	0	0	0	0	0	0	0
	point269	269										
Barton WB	point280	280	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point438	438	0	0	0	0	0	0	0	0	0	0
	point289	289	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point286	286	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point412	412	0	0	0	0	0	0	0	0	0	0
	point413	413	0	0	0	0	0	0	0	0	0	0
	point283	283	0	0	0	0	0	0	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point462	462	0	0	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	0	0	0	0	0	0	0	0	0	0
	point239	239	0	0	0	0	0	0	0	0	0	0
	point238	238	0	0	0	0	0	0	0	0	0	0
	point237	237	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point236	236	0	0	0	0	0	0	0	0	0	0
	point235	235	0	0	0	0	0	0	0	0	0	0
	point234	234	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point232	232	0	0	0	0	0	0	0	0	0	0
	point231	231	0	0	0	0	0	0	0	0	0	0
	point450	450	0	0	0	0	0	0	0	0	0	0
	point451	451	0	0	0	0	0	0	0	0	0	0
	point452	452	0	0	0	0	0	0	0	0	0	0
	point453	453	0	0	0	0	0	0	0	0	0	0
	point454	454	0	0	0	0	0	0	0	0	0	0
	point456	456	0	0	0	0	0	0	0	0	0	0
	point7	522	0	0	0	0	0	0	0	0	0	0
	point6	523	0	0	0	0	0	0	0	0	0	0
	point5	524	0	0	0	0	0	0	0	0	0	0
	point4	525	0	0	0	0	0	0	0	0	0	0
	point3	526	0	0	0	0	0	0	0	0	0	0
	point2	527	0	0	0	0	0	0	0	0	0	0
	point1	528										
La Crosse (northern)	point551	551	0	0	0	0	0	0	0	0	0	0
	point547	547	0	0	0	0	0	0	0	0	0	0
	point548	548	0	0	0	0	0	0	0	0	0	0
	point549	549	0	0	0	0	0	0	0	0	0	0
	point550	550										
I-215 NB Lanes 1 & 2	point38	38	3160	60	96	47	117	53	0	0	0	0
	point37	37	3160	60	96	47	117	53	0	0	0	0
	point36	36	3160	60	96	47	117	53	0	0	0	0
	point35	35	3160	60	96	47	117	53	0	0	0	0
	point34	34	3160	60	96	47	117	53	0	0	0	0
	point33	33	3160	60	96	47	117	53	0	0	0	0
	point32	32	3160	60	96	47	117	53	0	0	0	0
	point31	31	3160	60	96	47	117	53	0	0	0	0
	point30	30	3160	60	96	47	117	53	0	0	0	0
	point29	29	3160	60	96	47	117	53	0	0	0	0
	point28	28	3160	60	96	47	117	53	0	0	0	0
	point27	27	3160	60	96	47	117	53	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point26	26	3160	60	96	47	117	53	0	0	0	0
	point25	25	3160	60	96	47	117	53	0	0	0	0
	point534	534	3160	60	96	47	117	53	0	0	0	0
	point23	23	3160	60	96	47	117	53	0	0	0	0
	point22	22	3160	60	96	47	117	53	0	0	0	0
	point21	21	3160	60	96	47	117	53	0	0	0	0
	point533	533	3160	60	96	47	117	53	0	0	0	0
	point20	20	3160	60	96	47	117	53	0	0	0	0
	point19	19	3160	60	96	47	117	53	0	0	0	0
	point18	18	3160	60	96	47	117	53	0	0	0	0
	point17	17	3160	60	96	47	117	53	0	0	0	0
	point16	16	3160	60	96	47	117	53	0	0	0	0
	point15	15	3160	60	96	47	117	53	0	0	0	0
	point14	14	3160	60	96	47	117	53	0	0	0	0
	point13	13	3160	60	96	47	117	53	0	0	0	0
	point12	12	3160	60	96	47	117	53	0	0	0	0
	point11	11	3160	60	96	47	117	53	0	0	0	0
	point10	10	3160	60	96	47	117	53	0	0	0	0
	point9	9	3160	60	96	47	117	53	0	0	0	0
	point8	8	3160	60	96	47	117	53	0	0	0	0
	point7	7	3160	60	96	47	117	53	0	0	0	0
	point6	6	3160	60	96	47	117	53	0	0	0	0
	point5	5	3160	60	96	47	117	53	0	0	0	0
	point4	4	3160	60	96	47	117	53	0	0	0	0
	point3	3	3160	60	96	47	117	53	0	0	0	0
	point2	2	3160	60	96	47	117	53	0	0	0	0
	point1	1										
I-215 SB Lanes 1 & 2	point157	157	2955	60	80	47	117	53	0	0	0	0
	point156	156	2955	60	80	47	117	53	0	0	0	0
	point155	155	2955	60	80	47	117	53	0	0	0	0
	point154	154	2955	60	80	47	117	53	0	0	0	0
	point153	153	2955	60	80	47	117	53	0	0	0	0
	point152	152	2955	60	80	47	117	53	0	0	0	0
	point151	151	2955	60	80	47	117	53	0	0	0	0
	point150	150	2955	60	80	47	117	53	0	0	0	0
	point149	149	2955	60	80	47	117	53	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point148	148	2955	60	80	47	117	53	0	0	0	0
	point147	147	2955	60	80	47	117	53	0	0	0	0
	point146	146	2955	60	80	47	117	53	0	0	0	0
	point145	145	2955	60	80	47	117	53	0	0	0	0
	point144	144	2955	60	80	47	117	53	0	0	0	0
	point532	532	2955	60	80	47	117	53	0	0	0	0
	point142	142	2955	60	80	47	117	53	0	0	0	0
	point141	141	2955	60	80	47	117	53	0	0	0	0
	point140	140	2955	60	80	47	117	53	0	0	0	0
	point139	139	2955	60	80	47	117	53	0	0	0	0
	point138	138	2955	60	80	47	117	53	0	0	0	0
	point531	531	2955	60	80	47	117	53	0	0	0	0
	point136	136	2955	60	80	47	117	53	0	0	0	0
	point135	135	2955	60	80	47	117	53	0	0	0	0
	point134	134	2955	60	80	47	117	53	0	0	0	0
	point133	133	2955	60	80	47	117	53	0	0	0	0
	point132	132	2955	60	80	47	117	53	0	0	0	0
	point131	131	2955	60	80	47	117	53	0	0	0	0
	point130	130	2955	60	80	47	117	53	0	0	0	0
	point129	129	2955	60	80	47	117	53	0	0	0	0
	point128	128	2955	60	80	47	117	53	0	0	0	0
	point127	127	2955	60	80	47	117	53	0	0	0	0
	point126	126	2955	60	80	47	117	53	0	0	0	0
	point125	125	2955	60	80	47	117	53	0	0	0	0
	point124	124	2955	60	80	47	117	53	0	0	0	0
	point123	123	2955	60	80	47	117	53	0	0	0	0
	point122	122	2955	60	80	47	117	53	0	0	0	0
	point121	121	2955	60	80	47	117	53	0	0	0	0
	point120	120										
La Crosse NB	point557	557	0	0	0	0	0	0	0	0	0	0
	point556	556	0	0	0	0	0	0	0	0	0	0
	point555	555	0	0	0	0	0	0	0	0	0	0
	point554	554	0	0	0	0	0	0	0	0	0	0
	point553	553	0	0	0	0	0	0	0	0	0	0
	point552	552										
La Crosse SB	point563	563	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**I-215/Barton Road Interchange**

	point562	562	0	0	0	0	0	0	0	0	0	0
	point561	561	0	0	0	0	0	0	0	0	0	0
	point560	560	0	0	0	0	0	0	0	0	0	0
	point559	559	0	0	0	0	0	0	0	0	0	0
	point565	565										

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration Ext-Int 01

Barrier									Points												
Name	Type	Height		If Wall	If Berm	Run:Rise		Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment			On	Important		
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	ft:ft	\$ per Unit Length			X	Y	Z	at Point	Seg	Ht	Perturbs			Struct?	Reflec-tions?
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft						
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0				
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30							
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0				
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0				
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0				
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0				
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0				
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0				
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0				
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0				
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0				
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00							
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0				
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0				
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0				
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00							
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0				
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0				
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0				
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60							
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0				
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0				
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0				
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0				
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0				
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0				
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0				
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0				
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30							
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0				
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0				
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0				
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30							
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0				
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00							

INPUT: BARRIERS

I-215/Barton Road Interchange

Existing Wall 1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0		
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0		
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00					
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0		
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0		
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00					
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0		
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0		
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0		
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0		
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00					
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0		
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00					
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0		
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0		
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00					
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0		
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	97	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	96	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	99	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	98	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	101	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	100	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 7	W	0.00	99.99	0.00				0.00	point103	103	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point102	102	6,768,134.5	1,835,263.8	1,022.00	15.00				
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	105	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	104	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	107	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	106	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	111	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	110	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	113	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	112	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	115	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	114	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point117	117	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point116	116	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point119	119	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point118	118	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point121	121	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point120	120	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	123	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	122	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point125	125	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point124	124	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point127	127	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point126	126	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point129	129	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point128	128	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 31	W	0.00	99.99	0.00			0.00	point131	131	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point130	130	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00			0.00	point133	133	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point132	132	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00			0.00	point135	135	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point134	134	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00			0.00	point137	137	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point136	136	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00			0.00	point139	139	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point138	138	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00			0.00	point141	141	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point140	140	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00			0.00	point143	143	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point142	142	6,765,577.0	1,837,024.2	979.30	15.00					
Existing wall 9	W	0.00	99.99	0.00			0.00	point97	149	6,766,517.5	1,835,485.5	986.00	6.00	0.00	0	0		
								point98	150	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
								point99	151	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
								point100	152	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
								point101	153	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
								point102	154	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	155	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	156	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	157	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	158	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point119	159	6,767,311.5	1,836,437.0	1,007.20	6.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point252	160	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
								point118	161	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
								point117	162	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
								point116	163	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point253	164	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
								point115	165	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
								point114	166	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
								point113	167	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
								point217	168	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
								point218	169	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
								point219	170	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
								point220	171	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
								point221	172	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
								point245	173	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
								point246	174	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
								point247	175	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
								point248	176	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
								point249	177	6,767,675.5	1,836,811.1	1,011.00	6.00					
Barrier56	W	0.00	99.99	0.00			0.00	point256	178	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
								point250	179	6,767,715.0	1,836,788.8	1,013.50	5.00					
Barrier57	W	0.00	99.99	0.00			0.00	point255	180	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
								point251	181	6,767,816.0	1,836,961.2	1,016.00	5.00					

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Calibration Ext-Int 01

BARRIER DESIGN: INPUT HEIGHTS

Barriers											
Name	Type	Heights along Barrier			Length	If Wall	If Berm	Top	Run:Rise	Cost	
		Min	Avg	Max							
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$	
Existing Wall 5a	W	5.30	5.30	5.30	252	1336					0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777					0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664					0
Existing Wall 4b	W	12.60	12.60	12.60	698	8794					0
Existing Wall 8	W	5.30	5.30	5.30	768	4070					0
Existing Wall 7	W	5.30	5.30	5.30	253	1341					0
Building Barrier 9	W	15.00	15.00	15.00	298	4475					0
Existing Wall 1	W	6.00	6.00	6.00	407	2443					0
Existing Wall 2	W	5.00	5.00	5.00	143	716					0
Existing Wall 3	W	5.00	5.00	5.00	160	801					0
Building Barrier 1	W	20.00	20.00	20.00	144	2875					0
Building Barrier 2	W	25.00	25.00	25.00	137	3432					0
Building Barrier 3	W	25.00	25.00	25.00	122	3046					0
Building Barrier 4	W	25.00	25.00	25.00	384	9597					0
Building Barrier 5	W	20.00	20.00	20.00	145	2899					0
Building Barrier 6	W	15.00	15.00	15.00	79	1178					0
Building Barrier 18	W	15.00	15.00	15.00	116	1744					0
Building Barrier 16	W	15.00	15.00	15.00	92	1379					0
Building Barrier 19	W	15.00	15.00	15.00	145	2168					0
Building Barrier 20	W	15.00	15.00	15.00	51	770					0
Building Barrier 17	W	15.00	15.00	15.00	222	3330					0
Building Barrier 8	W	15.00	15.00	15.00	430	6443					0
Building Barrier 28	W	15.00	15.00	15.00	60	905					0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.																14 January 2011
Teak Kim																TNM 2.5

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Calibration Ext-Int 01

BARRIER DESIGN: INPUT HEIGHTS

Barriers		Segments		Heights			Length	If Wall	Area	On Struc?	Important Reflections?	If Berm Volume	Cost
Name	Type	Name	No.	First	Average	Second							
				Point	Point	Point							
				ft	ft	ft							
						ft	sq ft				cu yd	\$	
Existing Wall 5a	W	point1	1	5.30	5.30	5.30	252	1336					0
Existing Wall 5b	W	point12	12	6.00	6.00	6.00	175	1053					0
		point3	3	6.00	6.00	6.00	175	1048					0
		point4	4	6.00	6.00	6.00	175	1051					0
		point5	5	6.00	6.00	6.00	35	211					0
		point6	6	6.00	6.00	6.00	76	458					0
		point7	7	6.00	6.00	6.00	21	124					0
		point8	8	6.00	6.00	6.00	187	1124					0
		point9	9	6.00	6.00	6.00	66	397					0
		point10	10	6.00	6.00	6.00	52	312					0
		Existing Wall 4a	W	point13	13	8.00	8.00	8.00	48	385			
point14	14			8.00	8.00	8.00	6	49					0
point15	15			8.00	8.00	8.00	154	1230					0
Existing Wall 4b	W	point20	20	12.60	12.60	12.60	164	2068					0
		point17	17	12.60	12.60	12.60	236	2967					0
		point18	18	12.60	12.60	12.60	298	3759					0
Existing Wall 8	W	point21	21	5.30	5.30	5.30	115	610					0
		point22	22	5.30	5.30	5.30	128	676					0
		point23	23	5.30	5.30	5.30	218	1153					0
		point24	24	5.30	5.30	5.30	138	730					0
		point25	25	5.30	5.30	5.30	30	161					0
		point26	26	5.30	5.30	5.30	5	27					0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point27	27	5.30	5.30	5.30	81	427				0
		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 9	W	point44	44	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	point46	46	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	point48	48	5.00	5.00	5.00	78	388				0
		point49	49	5.00	5.00	5.00	65	327				0
Existing Wall 3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 28	W	point97	97	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	point99	99	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	point101	101	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	point103	103	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	point105	105	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	point107	107	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	point111	111	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	point113	113	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	115	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	point117	117	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	point119	119	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	point121	121	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	point123	123	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	point125	125	15.00	15.00	15.00	45	679				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 26	W	point127	127	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	point129	129	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	point131	131	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	point133	133	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	point135	135	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	point137	137	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	point139	139	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	point141	141	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	point143	143	15.00	15.00	15.00	46	687				0
Existing wall 9	W	point97	149	6.00	6.00	6.00	59	351				0
		point98	150	6.00	6.00	6.00	129	771				0
		point99	151	6.00	6.00	6.00	109	654				0
		point100	152	6.00	6.00	6.00	120	720				0
		point101	153	6.00	6.00	6.00	115	687				0
Building Barrier 12	W	point126	155	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	point121	157	6.00	6.00	6.00	54	321				0
		point120	158	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	160	7.00	7.00	7.00	29	201				0
		point118	161	7.00	7.00	7.00	72	507				0
		point117	162	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	164	6.00	6.00	6.00	72	430				0
		point115	165	6.00	6.00	6.00	10	60				0
		point114	166	6.00	6.00	6.00	81	485				0
		point113	167	6.00	6.00	6.00	3	20				0
		point217	168	6.00	6.00	6.00	36	214				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point218	169	6.00	6.00	6.00	9	51				0
		point219	170	6.00	6.00	6.00	27	164				0
		point220	171	6.00	6.00	6.00	3	20				0
		point221	172	6.00	6.00	6.00	8	49				0
		point245	173	6.00	6.00	6.00	81	483				0
		point246	174	6.00	6.00	6.00	124	743				0
		point247	175	6.00	6.00	6.00	44	262				0
		point248	176	6.00	6.00	6.00	72	435				0
Barrier56	W	point256	178	5.00	5.00	5.00	45	227				0
Barrier57	W	point255	180	5.00	5.00	5.00	127	633				0

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.				14 January 2011		
Teak Kim				TNM 2.5		
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:		I-215/Barton Road Interchange				
RUN:		Calibration Ext-Int 01				
Building Row			Points			
Name	Average	Building	No.	Coordinates (ground)		
	Height	Percent		X	Y	Z
	ft	%		ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building11	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

INPUT: RECEIVERS

I-215/Barton Road Interchange

LSA Associates, Inc.						14 January 2011					
Teak Kim						TNM 2.5					
INPUT: RECEIVERS											
PROJECT/CONTRACT:		I-215/Barton Road Interchange									
RUN:		Calibration Ext-Int 01									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z	above	Existing	Impact Criteria		NR	in
						Ground	LAeq1h	LAeq1h	Sub'l	Goal	Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Ext-Int 1	1	1	6,767,040.0	1,836,048.1	1,000.00	5.00	0.00	66	12.0	5.0	

INPUT: ROADWAYS

I-215/Barton Road Interchange

LSA Associates, Inc. Teak Kim						14 January 2011 TNM 2.5					
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INPUT: ROADWAYS											Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA
PROJECT/CONTRACT:	I-215/Barton Road Interchange										
RUN:	Calibration Ext-Int 01										

Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
I-215 NB Lane 3	36.0	point76	76	6,763,402.0	1,832,218.9	915.20				Average	
		point75	75	6,763,588.5	1,832,466.2	915.20				Average	
		point74	74	6,763,739.5	1,832,664.8	915.60				Average	
		point73	73	6,763,892.0	1,832,859.2	916.50				Average	
		point72	72	6,764,051.5	1,833,044.8	917.70				Average	
		point71	71	6,764,219.0	1,833,227.5	919.20				Average	
		point70	70	6,764,399.5	1,833,422.5	925.20				Average	
		point69	69	6,764,540.5	1,833,573.9	932.10				Average	
		point68	68	6,764,691.0	1,833,736.1	940.00				Average	
		point67	67	6,764,858.5	1,833,916.9	949.00				Average	
		point66	66	6,764,998.5	1,834,069.9	955.20				Average	
		point65	65	6,765,162.0	1,834,245.8	959.20				Average	
		point64	64	6,765,331.0	1,834,427.2	960.40				Average	
		point63	63	6,765,512.5	1,834,623.5	961.20				Average	
		point62	62	6,765,686.0	1,834,810.2	961.90				Average	
		point61	61	6,765,876.0	1,835,015.1	962.30				Average	
		point60	60	6,766,035.5	1,835,186.2	962.90				Average	
		point59	59	6,766,204.0	1,835,368.2	963.00				Average	
		point58	58	6,766,388.0	1,835,567.0	968.10				Average	
		point57	57	6,766,556.0	1,835,748.0	976.00				Average	
		point56	56	6,766,728.5	1,835,933.0	985.00				Average	
		point55	55	6,766,867.0	1,836,084.2	992.00				Average	
		point54	54	6,767,030.5	1,836,259.8	999.10				Average	
		point53	53	6,767,211.0	1,836,453.8	1,004.30				Average	
		point52	52	6,767,393.5	1,836,651.6	1,006.70				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average	
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average	
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average	
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average	
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average	
		point46	46	6,768,365.0	1,837,698.0	998.70				Average	
		point45	45	6,768,518.0	1,837,862.1	995.60				Average	
		point44	44	6,768,674.5	1,838,022.8	993.30				Average	
		point43	43	6,768,823.5	1,838,166.2	990.10				Average	
		point42	42	6,768,980.5	1,838,313.8	985.20				Average	
		point41	41	6,769,152.5	1,838,462.6	979.50				Average	
		point40	40	6,769,332.5	1,838,617.5	973.70				Average	
		point39	39	6,769,526.0	1,838,779.8	966.90					
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average	
		point114	114	6,769,306.0	1,838,640.9	973.60				Average	
		point113	113	6,769,128.0	1,838,488.2	979.80				Average	
		point112	112	6,768,955.5	1,838,338.1	985.60				Average	
		point111	111	6,768,799.0	1,838,190.2	990.80				Average	
		point110	110	6,768,650.0	1,838,046.2	993.50				Average	
		point109	109	6,768,494.0	1,837,885.0	996.00				Average	
		point108	108	6,768,337.5	1,837,718.9	998.70				Average	
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average	
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average	
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average	
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average	
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average	
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average	
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average	
		point100	100	6,767,004.0	1,836,280.2	999.10				Average	
		point99	99	6,766,841.5	1,836,104.6	992.10				Average	
		point98	98	6,766,703.0	1,835,954.8	984.90				Average	
		point97	97	6,766,530.0	1,835,768.2	976.10				Average	
		point96	96	6,766,361.5	1,835,587.1	967.90				Average	
		point95	95	6,766,157.5	1,835,368.2	963.10				Average	
		point94	94	6,766,012.5	1,835,211.8	963.00				Average	
		point93	93	6,765,850.5	1,835,035.8	962.30				Average	
		point92	92	6,765,661.0	1,834,831.2	961.80				Average	
		point91	91	6,765,487.5	1,834,644.8	961.20				Average	
		point90	90	6,765,305.5	1,834,449.4	960.40				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00					Average
		point256	256	6,764,014.5	1,835,366.4	953.50					Average
		point255	255	6,764,147.0	1,835,365.4	953.00					Average
		point254	254	6,764,493.5	1,835,375.1	965.50					Average
		point253	253	6,764,793.0	1,835,380.8	979.70					Average
		point252	252	6,765,094.5	1,835,380.8	972.00					Average
		point251	251	6,765,404.5	1,835,380.8	973.00					Average
		point250	250	6,765,697.0	1,835,379.8	977.30					Average
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50					Average
		point421	421	6,766,581.5	1,835,376.4	986.50					Average
		point259	259	6,766,754.0	1,835,377.4	989.00					Average
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100		Average
		point292	292	6,766,902.5	1,835,415.9	992.60					Average
		point291	291	6,766,755.5	1,835,415.0	989.20					Average
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00					Average
		point432	432	6,766,404.5	1,835,412.9	984.70					Average
		point303	303	6,766,337.5	1,835,409.2	985.00					Average
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50					Average
		point312	312	6,765,393.5	1,835,410.8	972.50					Average
		point311	311	6,765,428.5	1,835,587.1	971.00					Average
		point310	310	6,765,470.0	1,835,755.1	970.50					Average
		point309	309	6,765,519.5	1,836,010.5	972.00					Average
		point308	308	6,765,571.5	1,836,274.8	974.00					Average
		point307	307	6,765,596.5	1,836,444.6	976.00					Average
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100		Average
		point403	403	6,765,707.0	1,837,002.5	978.70					Average
		point404	404	6,765,713.5	1,837,015.4	978.00					Average
		point319	319	6,765,725.5	1,837,037.5	977.40					Average
		point318	318	6,765,777.5	1,837,150.5	969.50					Average
		point317	317	6,765,800.5	1,837,183.2	969.50					Average
		point316	316	6,765,829.5	1,837,210.5	969.50					Average
		point315	315	6,765,853.0	1,837,247.2	969.50					Average
		point314	314	6,765,892.0	1,837,349.2	969.50					Average

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		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda Ave NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

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		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda Ave SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB Ln	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB Ln	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB Ln	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB Ln	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

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		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

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		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

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Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40					
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse Avenue SB	12.0	point563	535	6,765,862.0	1,835,377.6	979.00				Average
		point562	536	6,765,848.0	1,835,263.8	975.50				Average
		point561	537	6,765,777.5	1,835,155.6	972.50				Average
		point560	538	6,765,702.5	1,835,060.4	970.50				Average
		point559	539	6,765,620.5	1,834,962.1	969.00				Average
		point565	540	6,765,452.0	1,834,758.2	964.50				
La Crosse Avenue (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point550	550	6,765,886.0	1,835,408.9	981.00					
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50					Average
		point37	37	6,763,604.0	1,832,456.6	914.50					Average
		point36	36	6,763,754.5	1,832,654.2	915.10					Average
		point35	35	6,763,905.5	1,832,849.8	916.10					Average
		point34	34	6,764,066.0	1,833,033.0	917.00					Average
		point33	33	6,764,233.5	1,833,215.5	918.50					Average
		point32	32	6,764,413.0	1,833,410.2	925.00					Average
		point31	31	6,764,553.5	1,833,563.0	932.00					Average
		point30	30	6,764,706.0	1,833,725.1	940.00					Average
		point29	29	6,764,871.5	1,833,906.1	949.00					Average
		point28	28	6,765,012.0	1,834,058.8	955.00					Average
		point27	27	6,765,176.5	1,834,233.2	958.90					Average
		point26	26	6,765,345.5	1,834,416.4	960.20					Average
		point25	25	6,765,527.5	1,834,612.0	960.80					Average
		point534	534	6,765,700.5	1,834,797.2	961.60					Average
		point23	23	6,765,891.0	1,835,003.8	962.10					Average
		point22	22	6,766,048.5	1,835,174.6	962.90					Average
		point21	21	6,766,219.5	1,835,357.8	963.20					Average
		point533	533	6,766,311.0	1,835,456.6	965.60					Average
		point20	20	6,766,402.5	1,835,555.5	968.00					Average
		point19	19	6,766,570.5	1,835,735.8	976.00					Average
		point18	18	6,766,741.5	1,835,920.5	985.00					Average
		point17	17	6,766,882.5	1,836,070.9	992.00					Average
		point16	16	6,767,044.5	1,836,249.0	999.00					Average
		point15	15	6,767,225.5	1,836,441.8	1,004.00					Average
		point14	14	6,767,407.5	1,836,639.4	1,006.20					Average
		point13	13	6,767,568.5	1,836,812.4	1,006.40					Average
		point12	12	6,767,719.0	1,836,975.2	1,007.10					Average
		point11	11	6,767,875.5	1,837,142.4	1,007.00					Average
		point10	10	6,768,047.0	1,837,328.5	1,004.90					Average
		point9	9	6,768,198.0	1,837,490.8	1,002.00					Average
		point8	8	6,768,380.0	1,837,686.9	998.40					Average
		point7	7	6,768,531.0	1,837,849.8	995.40					Average
		point6	6	6,768,688.0	1,838,010.4	993.00					Average
		point5	5	6,768,836.5	1,838,152.2	990.00					Average
		point4	4	6,768,994.0	1,838,300.6	985.00					Average
		point3	3	6,769,165.5	1,838,448.9	979.50					Average
		point2	2	6,769,345.5	1,838,603.8	973.60					Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point1	1	6,769,539.0	1,838,765.9	966.40				
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50				Average
		point156	156	6,769,292.0	1,838,653.6	973.10				Average
		point155	155	6,769,114.0	1,838,500.6	979.80				Average
		point154	154	6,768,941.5	1,838,350.8	985.80				Average
		point153	153	6,768,787.0	1,838,201.9	991.00				Average
		point152	152	6,768,637.5	1,838,059.1	994.00				Average
		point151	151	6,768,481.5	1,837,899.8	996.50				Average
		point150	150	6,768,324.5	1,837,731.5	998.70				Average
		point149	149	6,768,146.5	1,837,539.2	1,001.90				Average
		point148	148	6,767,994.0	1,837,374.8	1,004.80				Average
		point147	147	6,767,820.5	1,837,188.2	1,006.90				Average
		point146	146	6,767,668.0	1,837,022.6	1,007.10				Average
		point145	145	6,767,517.0	1,836,860.6	1,006.70				Average
		point144	144	6,767,356.0	1,836,686.2	1,006.20				Average
		point532	532	6,767,172.0	1,836,487.9	1,004.00				Average
		point142	142	6,766,991.0	1,836,292.2	998.90				Average
		point141	141	6,766,828.5	1,836,116.8	992.00				Average
		point140	140	6,766,689.5	1,835,966.8	984.50				Average
		point139	139	6,766,517.0	1,835,781.0	976.00				Average
		point138	138	6,766,348.0	1,835,599.4	967.80				Average
		point531	531	6,766,133.0	1,835,368.1	963.30				Average
		point136	136	6,765,999.5	1,835,223.5	962.80				Average
		point135	135	6,765,837.0	1,835,048.1	962.20				Average
		point134	134	6,765,647.5	1,834,843.9	961.70				Average
		point133	133	6,765,474.0	1,834,657.2	960.90				Average
		point132	132	6,765,292.5	1,834,461.8	960.40				Average
		point131	131	6,765,124.5	1,834,280.2	958.70				Average
		point130	130	6,764,960.5	1,834,102.9	954.80				Average
		point129	129	6,764,819.5	1,833,952.1	948.40				Average
		point128	128	6,764,650.5	1,833,769.1	939.80				Average
		point127	127	6,764,500.5	1,833,607.5	932.00				Average
		point126	126	6,764,368.5	1,833,463.8	925.50				Average
		point125	125	6,764,179.0	1,833,259.9	919.50				Average
		point124	124	6,764,013.0	1,833,077.6	918.20				Average
		point123	123	6,763,850.5	1,832,887.6	917.10				Average
		point122	122	6,763,711.5	1,832,715.1	916.30				Average
		point121	121	6,763,546.0	1,832,498.2	915.40				Average
		point120	120	6,763,362.0	1,832,252.2	915.40				

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse Avenue NB	12.0	point557	552	6,765,466.0	1,834,747.4	966.00				Average	
		point556	553	6,765,633.5	1,834,955.2	969.00				Average	
		point555	554	6,765,713.0	1,835,053.5	971.00				Average	
		point554	555	6,765,794.0	1,835,144.2	973.00				Average	
		point553	556	6,765,864.5	1,835,255.5	976.00				Average	
		point552	557	6,765,905.5	1,835,377.1	979.00					

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

LSA Associates, Inc.						17 January 2011							
Teak Kim						TNM 2.5							
						Calculated with TNM 2.5							
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:			I-215/Barton Road Interchange										
RUN:			Calibration Ext-Int 01										
BARRIER DESIGN:			INPUT HEIGHTS						Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.				
ATMOSPHERICS:			68 deg F, 50% RH										
Receiver													
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated Goal		Calculated minus Goal
				dB	dB	dB	dB	dB		dB	dB	dB	dB
Ext-Int 1		1	1	0.0	75.2	66	75.2	12	Snd Lvl	75.2	0.0	5	-5.0
Dwelling Units			# DUs	Noise Reduction									
				Min	Avg	Max							
				dB	dB	dB							
All Selected			1	0.0	0.0	0.0							
All Impacted			1	0.0	0.0	0.0							
All that meet NR Goal			0	0.0	0.0	0.0							

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

LSA Associates, Inc.			14 January 2011	
Teak Kim			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	I-215/Barton Road Interchange			
RUN:	Calibration Ext-Int 01			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,764,381.5	1,833,279.8	942.00
	2	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,016.5	1,833,967.0	943.00
	6	6,765,092.0	1,834,055.4	945.00
	7	6,765,258.0	1,834,237.6	954.00
	8	6,765,400.0	1,834,395.8	960.00
	9	6,765,541.0	1,834,544.6	964.00
	10	6,765,738.0	1,834,749.4	972.00
Terrain Line6	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	16	6,766,314.0	1,835,368.2	984.00
Terrain Line7	22	6,766,507.0	1,835,493.1	986.00
	23	6,766,573.5	1,835,591.8	987.00
	24	6,766,630.0	1,835,668.0	987.00
	25	6,766,679.5	1,835,723.8	989.00
	26	6,766,758.0	1,835,818.9	990.00
	27	6,766,863.0	1,835,948.1	994.00
	28	6,766,975.0	1,836,081.6	998.00
	29	6,767,078.5	1,836,200.6	1,001.00
	30	6,767,228.0	1,836,360.2	1,004.00
	31	6,767,393.0	1,836,514.6	1,010.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00
	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line15	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00

INPUT: TERRAIN LINES**I-215/Barton Road Interchange**

	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line14	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line11	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
	99	6,766,171.0	1,835,508.8	985.00
	100	6,766,103.5	1,835,420.1	982.00
Terrain Line8	102	6,767,393.0	1,836,514.6	1,010.00
	32	6,767,432.0	1,836,546.8	1,010.00
Terrain Line9	106	6,767,811.0	1,836,956.8	1,015.00
	37	6,767,911.0	1,837,066.2	1,017.00
	38	6,767,981.5	1,837,102.2	1,020.00
Terrain Line5	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,206.5	1,835,144.8	975.00
Terrain Line13	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,149.0	1,836,589.2	992.00
Terrain Line12	125	6,765,595.0	1,835,437.0	980.00
	126	6,765,566.0	1,835,436.2	979.30
	127	6,765,445.5	1,835,448.2	976.50

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011										
Teak Kim		TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:		I-215/Barton Road Interchange										
RUN:		Calibration Ext-Int 01										
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3	point76	76	1684	64	69	52	52	56	0	0	0	0
	point75	75	1684	64	69	52	52	56	0	0	0	0
	point74	74	1684	64	69	52	52	56	0	0	0	0
	point73	73	1684	64	69	52	52	56	0	0	0	0
	point72	72	1684	64	69	52	52	56	0	0	0	0
	point71	71	1684	64	69	52	52	56	0	0	0	0
	point70	70	1684	64	69	52	52	56	0	0	0	0
	point69	69	1684	64	69	52	52	56	0	0	0	0
	point68	68	1684	64	69	52	52	56	0	0	0	0
	point67	67	1684	64	69	52	52	56	0	0	0	0
	point66	66	1684	64	69	52	52	56	0	0	0	0
	point65	65	1684	64	69	52	52	56	0	0	0	0
	point64	64	1684	64	69	52	52	56	0	0	0	0
	point63	63	1684	64	69	52	52	56	0	0	0	0
	point62	62	1684	64	69	52	52	56	0	0	0	0
	point61	61	1684	64	69	52	52	56	0	0	0	0
	point60	60	1684	64	69	52	52	56	0	0	0	0
	point59	59	1684	64	69	52	52	56	0	0	0	0
	point58	58	1684	64	69	52	52	56	0	0	0	0
	point57	57	1684	64	69	52	52	56	0	0	0	0
	point56	56	1684	64	69	52	52	56	0	0	0	0
	point55	55	1684	64	69	52	52	56	0	0	0	0
	point54	54	1684	64	69	52	52	56	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1684	64	69	52	52	56	0	0	0	0
	point52	52	1684	64	69	52	52	56	0	0	0	0
	point51	51	1684	64	69	52	52	56	0	0	0	0
	point50	50	1684	64	69	52	52	56	0	0	0	0
	point49	49	1684	64	69	52	52	56	0	0	0	0
	point48	48	1684	64	69	52	52	56	0	0	0	0
	point47	47	1684	64	69	52	52	56	0	0	0	0
	point46	46	1684	64	69	52	52	56	0	0	0	0
	point45	45	1684	64	69	52	52	56	0	0	0	0
	point44	44	1684	64	69	52	52	56	0	0	0	0
	point43	43	1684	64	69	52	52	56	0	0	0	0
	point42	42	1684	64	69	52	52	56	0	0	0	0
	point41	41	1684	64	69	52	52	56	0	0	0	0
	point40	40	1684	64	69	52	52	56	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1188	64	59	52	79	56	0	0	0	0
	point114	114	1188	64	59	52	79	56	0	0	0	0
	point113	113	1188	64	59	52	79	56	0	0	0	0
	point112	112	1188	64	59	52	79	56	0	0	0	0
	point111	111	1188	64	59	52	79	56	0	0	0	0
	point110	110	1188	64	59	52	79	56	0	0	0	0
	point109	109	1188	64	59	52	79	56	0	0	0	0
	point108	108	1188	64	59	52	79	56	0	0	0	0
	point107	107	1188	64	59	52	79	56	0	0	0	0
	point106	106	1188	64	59	52	79	56	0	0	0	0
	point105	105	1188	64	59	52	79	56	0	0	0	0
	point104	104	1188	64	59	52	79	56	0	0	0	0
	point103	103	1188	64	59	52	79	56	0	0	0	0
	point102	102	1188	64	59	52	79	56	0	0	0	0
	point101	101	1188	64	59	52	79	56	0	0	0	0
	point100	100	1188	64	59	52	79	56	0	0	0	0
	point99	99	1188	64	59	52	79	56	0	0	0	0
	point98	98	1188	64	59	52	79	56	0	0	0	0
	point97	97	1188	64	59	52	79	56	0	0	0	0
	point96	96	1188	64	59	52	79	56	0	0	0	0
	point95	95	1188	64	59	52	79	56	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1188	64	59	52	79	56	0	0	0	0
	point93	93	1188	64	59	52	79	56	0	0	0	0
	point92	92	1188	64	59	52	79	56	0	0	0	0
	point91	91	1188	64	59	52	79	56	0	0	0	0
	point90	90	1188	64	59	52	79	56	0	0	0	0
	point89	89	1188	64	59	52	79	56	0	0	0	0
	point88	88	1188	64	59	52	79	56	0	0	0	0
	point87	87	1188	64	59	52	79	56	0	0	0	0
	point86	86	1188	64	59	52	79	56	0	0	0	0
	point85	85	1188	64	59	52	79	56	0	0	0	0
	point84	84	1188	64	59	52	79	56	0	0	0	0
	point83	83	1188	64	59	52	79	56	0	0	0	0
	point82	82	1188	64	59	52	79	56	0	0	0	0
	point81	81	1188	64	59	52	79	56	0	0	0	0
	point80	80	1188	64	59	52	79	56	0	0	0	0
	point79	79	1188	64	59	52	79	56	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point435	435	0	0	0	0	0	0	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	0	0	0	0	0	0	0	0	0	0
	point223	223	0	0	0	0	0	0	0	0	0	0
	point224	224	0	0	0	0	0	0	0	0	0	0
	point225	225	0	0	0	0	0	0	0	0	0	0
	point226	226	0	0	0	0	0	0	0	0	0	0
	point227	227	0	0	0	0	0	0	0	0	0	0
	point228	228	0	0	0	0	0	0	0	0	0	0
	point420	420	0	0	0	0	0	0	0	0	0	0
	point229	229										
Barton EB	point257	257	0	0	0	0	0	0	0	0	0	0
	point256	256	0	0	0	0	0	0	0	0	0	0
	point255	255	0	0	0	0	0	0	0	0	0	0
	point254	254	0	0	0	0	0	0	0	0	0	0
	point253	253	0	0	0	0	0	0	0	0	0	0
	point252	252	0	0	0	0	0	0	0	0	0	0
	point251	251	0	0	0	0	0	0	0	0	0	0
	point250	250	0	0	0	0	0	0	0	0	0	0
	point436	436										
Barton EB	point260	260	0	0	0	0	0	0	0	0	0	0
	point421	421	0	0	0	0	0	0	0	0	0	0
	point259	259	0	0	0	0	0	0	0	0	0	0
	point258	258										
Barton WB	point397	397	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point291	291	0	0	0	0	0	0	0	0	0	0
	point290	290										
Barton WB	point304	304	0	0	0	0	0	0	0	0	0	0
	point432	432	0	0	0	0	0	0	0	0	0	0
	point303	303	0	0	0	0	0	0	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	0	0	0	0	0	0	0	0	0	0
	point312	312	0	0	0	0	0	0	0	0	0	0
	point311	311	0	0	0	0	0	0	0	0	0	0
	point310	310	0	0	0	0	0	0	0	0	0	0
	point309	309	0	0	0	0	0	0	0	0	0	0
	point308	308	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	0	0	0	0	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	0	0	0	0	0	0	0	0	0	0
	point403	403	0	0	0	0	0	0	0	0	0	0
	point404	404	0	0	0	0	0	0	0	0	0	0
	point319	319	0	0	0	0	0	0	0	0	0	0
	point318	318	0	0	0	0	0	0	0	0	0	0
	point317	317	0	0	0	0	0	0	0	0	0	0
	point316	316	0	0	0	0	0	0	0	0	0	0
	point315	315	0	0	0	0	0	0	0	0	0	0
	point314	314	0	0	0	0	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	0	0	0	0	0	0	0	0	0	0
	point406	406	0	0	0	0	0	0	0	0	0	0
	point407	407	0	0	0	0	0	0	0	0	0	0
	point326	326	0	0	0	0	0	0	0	0	0	0
	point325	325	0	0	0	0	0	0	0	0	0	0
	point324	324	0	0	0	0	0	0	0	0	0	0
	point323	323	0	0	0	0	0	0	0	0	0	0
	point322	322	0	0	0	0	0	0	0	0	0	0
	point321	321	0	0	0	0	0	0	0	0	0	0
	point425	425	0	0	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	0	0	0	0	0	0	0	0	0	0
	point332	332	0	0	0	0	0	0	0	0	0	0
	point331	331	0	0	0	0	0	0	0	0	0	0
	point330	330	0	0	0	0	0	0	0	0	0	0
	point329	329	0	0	0	0	0	0	0	0	0	0
	point328	328	0	0	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda Ave NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda Ave SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB Ln	point426	426	0	0	0	0	0	0	0	0	0	0
	point363	363	0	0	0	0	0	0	0	0	0	0
	point364	364	0	0	0	0	0	0	0	0	0	0
	point365	365	0	0	0	0	0	0	0	0	0	0
	point366	366	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	0	0	0	0	0	0	0	0	0	0
	point368	368	0	0	0	0	0	0	0	0	0	0
	point430	430	0	0	0	0	0	0	0	0	0	0
	point369	369										
Michigan NB Ln	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB Ln	point431	431	0	0	0	0	0	0	0	0	0	0
	point374	374	0	0	0	0	0	0	0	0	0	0
	point375	375	0	0	0	0	0	0	0	0	0	0
	point376	376	0	0	0	0	0	0	0	0	0	0
	point377	377	0	0	0	0	0	0	0	0	0	0
	point378	378	0	0	0	0	0	0	0	0	0	0
	point379	379	0	0	0	0	0	0	0	0	0	0
	point380	380										
Michigan SB Ln	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB Ln	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point441	441	0	0	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	0	0	0	0	0	0	0	0	0	0
	point249	249	0	0	0	0	0	0	0	0	0	0
	point248	248	0	0	0	0	0	0	0	0	0	0
	point247	247										
Barton WB	point445	445	0	0	0	0	0	0	0	0	0	0
	point434	434	0	0	0	0	0	0	0	0	0	0
	point301	301	0	0	0	0	0	0	0	0	0	0
	point300	300	0	0	0	0	0	0	0	0	0	0
	point422	422	0	0	0	0	0	0	0	0	0	0
	point423	423	0	0	0	0	0	0	0	0	0	0
	point299	299	0	0	0	0	0	0	0	0	0	0
	point298	298	0	0	0	0	0	0	0	0	0	0
	point297	297	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point294	294										
Barton EB	point398	398	0	0	0	0	0	0	0	0	0	0
	point428	428	0	0	0	0	0	0	0	0	0	0
	point429	429	0	0	0	0	0	0	0	0	0	0
	point268	268	0	0	0	0	0	0	0	0	0	0
	point267	267	0	0	0	0	0	0	0	0	0	0
	point266	266	0	0	0	0	0	0	0	0	0	0
	point265	265	0	0	0	0	0	0	0	0	0	0
	point264	264	0	0	0	0	0	0	0	0	0	0
	point263	263	0	0	0	0	0	0	0	0	0	0
	point262	262	0	0	0	0	0	0	0	0	0	0
	point439	439	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	0	0	0	0	0	0	0	0	0	0
	point269	269										
Barton WB	point280	280	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point438	438	0	0	0	0	0	0	0	0	0	0
	point289	289	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point286	286	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point412	412	0	0	0	0	0	0	0	0	0	0
	point413	413	0	0	0	0	0	0	0	0	0	0
	point283	283	0	0	0	0	0	0	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point462	462	0	0	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	292	64	32	52	8	56	0	0	0	0
	point239	239	292	64	32	52	8	56	0	0	0	0
	point238	238	292	64	32	52	8	56	0	0	0	0
	point237	237	292	64	32	52	8	56	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point236	236	292	64	32	52	8	56	0	0	0	0
	point235	235	292	64	32	52	8	56	0	0	0	0
	point234	234	292	64	32	52	8	56	0	0	0	0
	point233	233	292	64	32	52	8	56	0	0	0	0
	point232	232	292	64	32	52	8	56	0	0	0	0
	point231	231	292	64	32	52	8	56	0	0	0	0
	point450	450	292	64	32	52	8	56	0	0	0	0
	point451	451	292	64	32	52	8	56	0	0	0	0
	point452	452	292	64	32	52	8	56	0	0	0	0
	point453	453	292	64	32	52	8	56	0	0	0	0
	point454	454	292	64	32	52	8	56	0	0	0	0
	point456	456	292	64	32	52	8	56	0	0	0	0
	point7	522	292	64	32	52	8	56	0	0	0	0
	point6	523	292	64	32	52	8	56	0	0	0	0
	point5	524	292	64	32	52	8	56	0	0	0	0
	point4	525	292	64	32	52	8	56	0	0	0	0
	point3	526	292	64	32	52	8	56	0	0	0	0
	point2	527	292	64	32	52	8	56	0	0	0	0
	point1	528										
La Crosse Avenue SB	point563	535	0	0	0	0	0	0	0	0	0	0
	point562	536	0	0	0	0	0	0	0	0	0	0
	point561	537	0	0	0	0	0	0	0	0	0	0
	point560	538	0	0	0	0	0	0	0	0	0	0
	point559	539	0	0	0	0	0	0	0	0	0	0
	point565	540										
La Crosse Avenue (northern)	point551	551	0	0	0	0	0	0	0	0	0	0
	point547	547	0	0	0	0	0	0	0	0	0	0
	point548	548	0	0	0	0	0	0	0	0	0	0
	point549	549	0	0	0	0	0	0	0	0	0	0
	point550	550										
I-215 NB Lanes 1 & 2	point38	38	3368	64	139	52	104	56	0	0	0	0
	point37	37	3368	64	139	52	104	56	0	0	0	0
	point36	36	3368	64	139	52	104	56	0	0	0	0
	point35	35	3368	64	139	52	104	56	0	0	0	0
	point34	34	3368	64	139	52	104	56	0	0	0	0
	point33	33	3368	64	139	52	104	56	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point32	32	3368	64	139	52	104	56	0	0	0	0
	point31	31	3368	64	139	52	104	56	0	0	0	0
	point30	30	3368	64	139	52	104	56	0	0	0	0
	point29	29	3368	64	139	52	104	56	0	0	0	0
	point28	28	3368	64	139	52	104	56	0	0	0	0
	point27	27	3368	64	139	52	104	56	0	0	0	0
	point26	26	3368	64	139	52	104	56	0	0	0	0
	point25	25	3368	64	139	52	104	56	0	0	0	0
	point534	534	3368	64	139	52	104	56	0	0	0	0
	point23	23	3368	64	139	52	104	56	0	0	0	0
	point22	22	3368	64	139	52	104	56	0	0	0	0
	point21	21	3368	64	139	52	104	56	0	0	0	0
	point533	533	3368	64	139	52	104	56	0	0	0	0
	point20	20	3368	64	139	52	104	56	0	0	0	0
	point19	19	3368	64	139	52	104	56	0	0	0	0
	point18	18	3368	64	139	52	104	56	0	0	0	0
	point17	17	3368	64	139	52	104	56	0	0	0	0
	point16	16	3368	64	139	52	104	56	0	0	0	0
	point15	15	3368	64	139	52	104	56	0	0	0	0
	point14	14	3368	64	139	52	104	56	0	0	0	0
	point13	13	3368	64	139	52	104	56	0	0	0	0
	point12	12	3368	64	139	52	104	56	0	0	0	0
	point11	11	3368	64	139	52	104	56	0	0	0	0
	point10	10	3368	64	139	52	104	56	0	0	0	0
	point9	9	3368	64	139	52	104	56	0	0	0	0
	point8	8	3368	64	139	52	104	56	0	0	0	0
	point7	7	3368	64	139	52	104	56	0	0	0	0
	point6	6	3368	64	139	52	104	56	0	0	0	0
	point5	5	3368	64	139	52	104	56	0	0	0	0
	point4	4	3368	64	139	52	104	56	0	0	0	0
	point3	3	3368	64	139	52	104	56	0	0	0	0
	point2	2	3368	64	139	52	104	56	0	0	0	0
	point1	1										
I-215 SB Lanes 1 & 2	point157	157	2376	64	117	52	157	56	0	0	0	0
	point156	156	2376	64	117	52	157	56	0	0	0	0
	point155	155	2376	64	117	52	157	56	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point154	154	2376	64	117	52	157	56	0	0	0	0
	point153	153	2376	64	117	52	157	56	0	0	0	0
	point152	152	2376	64	117	52	157	56	0	0	0	0
	point151	151	2376	64	117	52	157	56	0	0	0	0
	point150	150	2376	64	117	52	157	56	0	0	0	0
	point149	149	2376	64	117	52	157	56	0	0	0	0
	point148	148	2376	64	117	52	157	56	0	0	0	0
	point147	147	2376	64	117	52	157	56	0	0	0	0
	point146	146	2376	64	117	52	157	56	0	0	0	0
	point145	145	2376	64	117	52	157	56	0	0	0	0
	point144	144	2376	64	117	52	157	56	0	0	0	0
	point532	532	2376	64	117	52	157	56	0	0	0	0
	point142	142	2376	64	117	52	157	56	0	0	0	0
	point141	141	2376	64	117	52	157	56	0	0	0	0
	point140	140	2376	64	117	52	157	56	0	0	0	0
	point139	139	2376	64	117	52	157	56	0	0	0	0
	point138	138	2376	64	117	52	157	56	0	0	0	0
	point531	531	2376	64	117	52	157	56	0	0	0	0
	point136	136	2376	64	117	52	157	56	0	0	0	0
	point135	135	2376	64	117	52	157	56	0	0	0	0
	point134	134	2376	64	117	52	157	56	0	0	0	0
	point133	133	2376	64	117	52	157	56	0	0	0	0
	point132	132	2376	64	117	52	157	56	0	0	0	0
	point131	131	2376	64	117	52	157	56	0	0	0	0
	point130	130	2376	64	117	52	157	56	0	0	0	0
	point129	129	2376	64	117	52	157	56	0	0	0	0
	point128	128	2376	64	117	52	157	56	0	0	0	0
	point127	127	2376	64	117	52	157	56	0	0	0	0
	point126	126	2376	64	117	52	157	56	0	0	0	0
	point125	125	2376	64	117	52	157	56	0	0	0	0
	point124	124	2376	64	117	52	157	56	0	0	0	0
	point123	123	2376	64	117	52	157	56	0	0	0	0
	point122	122	2376	64	117	52	157	56	0	0	0	0
	point121	121	2376	64	117	52	157	56	0	0	0	0
	point120	120										
La Crosse Avenue NB	point557	552	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**I-215/Barton Road Interchange**

	point556	553	0	0	0	0	0	0	0	0	0	0
	point555	554	0	0	0	0	0	0	0	0	0	0
	point554	555	0	0	0	0	0	0	0	0	0	0
	point553	556	0	0	0	0	0	0	0	0	0	0
	point552	557										

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	22 June 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration 02

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	\$ per	\$ per	Top	Run:Rise	\$ per			X	Y	Z	at	Seg	Ht	Perturbs	On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
		ft	ft	Area	Vol.	ft	ft:ft	Length			ft	ft	ft	ft	ment				tions?
				\$/sq ft	\$/cu yd			\$/ft											
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0		
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					

INPUT: BARRIERS

I-215/Barton Road Interchange

Existing Wall 1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0		
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0		
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00					
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0		
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0		
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00					
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0		
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0		
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0		
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0		
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00					
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0		
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00					
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0		
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0		
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00					
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0		
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	97	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	96	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	99	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	98	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	101	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	100	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 7	W	0.00	99.99	0.00				0.00	point103	103	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point102	102	6,768,134.5	1,835,263.8	1,022.00	15.00				
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	105	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	104	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	107	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	106	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	111	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	110	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	113	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	112	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	115	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	114	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point117	117	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point116	116	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point119	119	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point118	118	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point121	121	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point120	120	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	123	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	122	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point125	125	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point124	124	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point127	127	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point126	126	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point129	129	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point128	128	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 31	W	0.00	99.99	0.00			0.00	point131	131	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point130	130	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00			0.00	point133	133	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point132	132	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00			0.00	point135	135	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point134	134	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00			0.00	point137	137	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point136	136	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00			0.00	point139	139	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point138	138	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00			0.00	point141	141	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point140	140	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00			0.00	point143	143	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point142	142	6,765,577.0	1,837,024.2	979.30	15.00					
Existing wall 9	W	0.00	99.99	0.00			0.00	point97	149	6,766,517.5	1,835,485.5	986.00	6.00	0.00	0	0		
								point98	150	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
								point99	151	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
								point100	152	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
								point101	153	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
								point102	154	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	155	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	156	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	157	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	158	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point119	159	6,767,311.5	1,836,437.0	1,007.20	6.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point252	160	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
								point118	161	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
								point117	162	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
								point116	163	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point253	164	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
								point115	165	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
								point114	166	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
								point113	167	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
								point217	168	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
								point218	169	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
								point219	170	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
								point220	171	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
								point221	172	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
								point245	173	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
								point246	174	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
								point247	175	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
								point248	176	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
								point249	177	6,767,675.5	1,836,811.1	1,011.00	6.00					
Barrier56	W	0.00	99.99	0.00			0.00	point256	178	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
								point250	179	6,767,715.0	1,836,788.8	1,013.50	5.00					
Barrier57	W	0.00	99.99	0.00			0.00	point255	180	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
								point251	181	6,767,816.0	1,836,961.2	1,016.00	5.00					

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.				22 June 2011						
Teak Kim				TNM 2.5						

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT:	I-215/Barton Road Interchange									
RUN:	Calibration 02									
BARRIER DESIGN:	INPUT HEIGHTS									

Barriers										
Name	Type	Heights along Barrier			Length	If Wall	If Berm	Top	Run:Rise	Cost
		Min	Avg	Max						
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$
Existing Wall 5a	W	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777				0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664				0
Existing Wall 4b	W	12.60	12.60	12.60	698	8794				0
Existing Wall 8	W	5.30	5.30	5.30	768	4070				0
Existing Wall 7	W	5.30	5.30	5.30	253	1341				0
Building Barrier 9	W	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	5.00	5.00	5.00	143	716				0
Existing Wall 3	W	5.00	5.00	5.00	160	801				0
Building Barrier 1	W	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	25.00	25.00	25.00	122	3046				0
Building Barrier 4	W	25.00	25.00	25.00	384	9597				0
Building Barrier 5	W	20.00	20.00	20.00	145	2899				0
Building Barrier 6	W	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	15.00	15.00	15.00	145	2168				0
Building Barrier 20	W	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	15.00	15.00	15.00	430	6443				0
Building Barrier 28	W	15.00	15.00	15.00	60	905				0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point27	27	5.30	5.30	5.30	81	427				0
		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 9	W	point44	44	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	point46	46	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	point48	48	5.00	5.00	5.00	78	388				0
		point49	49	5.00	5.00	5.00	65	327				0
Existing Wall 3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 28	W	point97	97	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	point99	99	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	point101	101	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	point103	103	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	point105	105	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	point107	107	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	point111	111	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	point113	113	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	115	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	point117	117	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	point119	119	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	point121	121	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	point123	123	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	point125	125	15.00	15.00	15.00	45	679				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 26	W	point127	127	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	point129	129	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	point131	131	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	point133	133	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	point135	135	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	point137	137	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	point139	139	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	point141	141	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	point143	143	15.00	15.00	15.00	46	687				0
Existing wall 9	W	point97	149	6.00	6.00	6.00	59	351				0
		point98	150	6.00	6.00	6.00	129	771				0
		point99	151	6.00	6.00	6.00	109	654				0
		point100	152	6.00	6.00	6.00	120	720				0
		point101	153	6.00	6.00	6.00	115	687				0
Building Barrier 12	W	point126	155	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	point121	157	6.00	6.00	6.00	54	321				0
		point120	158	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	160	7.00	7.00	7.00	29	201				0
		point118	161	7.00	7.00	7.00	72	507				0
		point117	162	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	164	6.00	6.00	6.00	72	430				0
		point115	165	6.00	6.00	6.00	10	60				0
		point114	166	6.00	6.00	6.00	81	485				0
		point113	167	6.00	6.00	6.00	3	20				0
		point217	168	6.00	6.00	6.00	36	214				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point218	169	6.00	6.00	6.00	9	51				0
		point219	170	6.00	6.00	6.00	27	164				0
		point220	171	6.00	6.00	6.00	3	20				0
		point221	172	6.00	6.00	6.00	8	49				0
		point245	173	6.00	6.00	6.00	81	483				0
		point246	174	6.00	6.00	6.00	124	743				0
		point247	175	6.00	6.00	6.00	44	262				0
		point248	176	6.00	6.00	6.00	72	435				0
Barrier56	W	point256	178	5.00	5.00	5.00	45	227				0
Barrier57	W	point255	180	5.00	5.00	5.00	127	633				0

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.			22 June 2011			
Teak Kim			TNM 2.5			
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:			I-215/Barton Road Interchange			
RUN:			Calibration 02			
Building Row			Points			
Name	Average Height	Building Percent	No.	Coordinates (ground)		
	ft	%		X	Y	Z
				ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building11	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

INPUT: RECEIVERS

I-215/Barton Road Interchange

LSA Associates, Inc.						22 June 2011					
Teak Kim						TNM 2.5					
INPUT: RECEIVERS											
PROJECT/CONTRACT:		I-215/Barton Road Interchange									
RUN:		Calibration 02									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-2	1	1	6,767,127.0	1,834,950.8	1,000.00	5.00	0.00	66	12.0	5.0	
R-2	2	1	6,766,113.5	1,834,196.8	971.50	5.00	0.00	66	12.0	5.0	
R-3	3	1	6,766,338.5	1,834,419.5	972.00	5.00	0.00	66	12.0	5.0	
R-4	4	1	6,766,237.0	1,834,175.0	973.00	5.00	0.00	66	12.0	5.0	
R-5	5	1	6,766,327.0	1,834,171.8	973.00	5.00	0.00	66	12.0	5.0	
R-6	6	1	6,766,413.5	1,834,419.5	973.90	5.00	0.00	66	12.0	5.0	
R-7	7	1	6,766,639.5	1,834,427.0	980.00	5.00	0.00	66	12.0	5.0	
R-8	8	1	6,766,721.5	1,834,433.0	982.00	5.00	0.00	66	12.0	5.0	
R-9	9	1	6,766,801.0	1,834,434.5	986.00	5.00	0.00	66	12.0	5.0	
R-10	10	1	6,766,878.5	1,834,436.0	992.00	5.00	0.00	66	12.0	5.0	
R-11	11	1	6,767,091.0	1,834,503.4	995.00	5.00	0.00	66	12.0	5.0	
R-12	12	1	6,767,101.5	1,834,635.0	996.00	5.00	0.00	66	12.0	5.0	
R-13	13	1	6,767,091.0	1,834,820.5	999.00	5.00	0.00	66	12.0	5.0	
R-14	14	1	6,767,249.5	1,834,473.4	998.00	5.00	0.00	66	12.0	5.0	
R-15	15	1	6,767,375.5	1,834,551.2	1,000.00	5.00	0.00	66	12.0	5.0	
R-16	16	1	6,767,319.5	1,834,848.0	1,003.00	5.00	0.00	66	12.0	5.0	
R-138	174	1	6,766,287.0	1,834,683.0	976.30	5.00	0.00	66	12.0	5.0	Y

INPUT: ROADWAYS

I-215/Barton Road Interchange

LSA Associates, Inc.					22 June 2011					
Teak Kim					TNM 2.5					

INPUT: ROADWAYS										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA
PROJECT/CONTRACT:	I-215/Barton Road Interchange									
RUN:	Calibration 02									

Roadway	Width	Points	Coordinates (pavement)			Flow Control			Segment		
Name		Name	No.	X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
I-215 NB Lane 3	36.0	point76	76	6,763,402.0	1,832,218.9	915.20				Average	
		point75	75	6,763,588.5	1,832,466.2	915.20				Average	
		point74	74	6,763,739.5	1,832,664.8	915.60				Average	
		point73	73	6,763,892.0	1,832,859.2	916.50				Average	
		point72	72	6,764,051.5	1,833,044.8	917.70				Average	
		point71	71	6,764,219.0	1,833,227.5	919.20				Average	
		point70	70	6,764,399.5	1,833,422.5	925.20				Average	
		point69	69	6,764,540.5	1,833,573.9	932.10				Average	
		point68	68	6,764,691.0	1,833,736.1	940.00				Average	
		point67	67	6,764,858.5	1,833,916.9	949.00				Average	
		point66	66	6,764,998.5	1,834,069.9	955.20				Average	
		point65	65	6,765,162.0	1,834,245.8	959.20				Average	
		point64	64	6,765,331.0	1,834,427.2	960.40				Average	
		point63	63	6,765,512.5	1,834,623.5	961.20				Average	
		point62	62	6,765,686.0	1,834,810.2	961.90				Average	
		point61	61	6,765,876.0	1,835,015.1	962.30				Average	
		point60	60	6,766,035.5	1,835,186.2	962.90				Average	
		point59	59	6,766,204.0	1,835,368.2	963.00				Average	
		point58	58	6,766,388.0	1,835,567.0	968.10				Average	
		point57	57	6,766,556.0	1,835,748.0	976.00				Average	
		point56	56	6,766,728.5	1,835,933.0	985.00				Average	
		point55	55	6,766,867.0	1,836,084.2	992.00				Average	
		point54	54	6,767,030.5	1,836,259.8	999.10				Average	
		point53	53	6,767,211.0	1,836,453.8	1,004.30				Average	
		point52	52	6,767,393.5	1,836,651.6	1,006.70				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average
		point46	46	6,768,365.0	1,837,698.0	998.70				Average
		point45	45	6,768,518.0	1,837,862.1	995.60				Average
		point44	44	6,768,674.5	1,838,022.8	993.30				Average
		point43	43	6,768,823.5	1,838,166.2	990.10				Average
		point42	42	6,768,980.5	1,838,313.8	985.20				Average
		point41	41	6,769,152.5	1,838,462.6	979.50				Average
		point40	40	6,769,332.5	1,838,617.5	973.70				Average
		point39	39	6,769,526.0	1,838,779.8	966.90				
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average
		point114	114	6,769,306.0	1,838,640.9	973.60				Average
		point113	113	6,769,128.0	1,838,488.2	979.80				Average
		point112	112	6,768,955.5	1,838,338.1	985.60				Average
		point111	111	6,768,799.0	1,838,190.2	990.80				Average
		point110	110	6,768,650.0	1,838,046.2	993.50				Average
		point109	109	6,768,494.0	1,837,885.0	996.00				Average
		point108	108	6,768,337.5	1,837,718.9	998.70				Average
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average
		point100	100	6,767,004.0	1,836,280.2	999.10				Average
		point99	99	6,766,841.5	1,836,104.6	992.10				Average
		point98	98	6,766,703.0	1,835,954.8	984.90				Average
		point97	97	6,766,530.0	1,835,768.2	976.10				Average
		point96	96	6,766,361.5	1,835,587.1	967.90				Average
		point95	95	6,766,157.5	1,835,368.2	963.10				Average
		point94	94	6,766,012.5	1,835,211.8	963.00				Average
		point93	93	6,765,850.5	1,835,035.8	962.30				Average
		point92	92	6,765,661.0	1,834,831.2	961.80				Average
		point91	91	6,765,487.5	1,834,644.8	961.20				Average
		point90	90	6,765,305.5	1,834,449.4	960.40				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00				Average	
		point256	256	6,764,014.5	1,835,366.4	953.50				Average	
		point255	255	6,764,147.0	1,835,365.4	953.00				Average	
		point254	254	6,764,493.5	1,835,375.1	965.50				Average	
		point253	253	6,764,793.0	1,835,380.8	979.70				Average	
		point252	252	6,765,094.5	1,835,380.8	972.00				Average	
		point251	251	6,765,404.5	1,835,380.8	973.00				Average	
		point250	250	6,765,697.0	1,835,379.8	977.30				Average	
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50				Average	
		point421	421	6,766,581.5	1,835,376.4	986.50				Average	
		point259	259	6,766,754.0	1,835,377.4	989.00				Average	
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100	Average	
		point292	292	6,766,902.5	1,835,415.9	992.60				Average	
		point291	291	6,766,755.5	1,835,415.0	989.20				Average	
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00				Average	
		point432	432	6,766,404.5	1,835,412.9	984.70				Average	
		point303	303	6,766,337.5	1,835,409.2	985.00				Average	Y
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50				Average	
		point312	312	6,765,393.5	1,835,410.8	972.50				Average	
		point311	311	6,765,428.5	1,835,587.1	971.00				Average	
		point310	310	6,765,470.0	1,835,755.1	970.50				Average	
		point309	309	6,765,519.5	1,836,010.5	972.00				Average	
		point308	308	6,765,571.5	1,836,274.8	974.00				Average	
		point307	307	6,765,596.5	1,836,444.6	976.00				Average	
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100	Average	
		point403	403	6,765,707.0	1,837,002.5	978.70				Average	
		point404	404	6,765,713.5	1,837,015.4	978.00				Average	
		point319	319	6,765,725.5	1,837,037.5	977.40				Average	
		point318	318	6,765,777.5	1,837,150.5	969.50				Average	
		point317	317	6,765,800.5	1,837,183.2	969.50				Average	
		point316	316	6,765,829.5	1,837,210.5	969.50				Average	
		point315	315	6,765,853.0	1,837,247.2	969.50				Average	
		point314	314	6,765,892.0	1,837,349.2	969.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

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		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point576	576	6,766,963.5	1,834,891.6	992.70				Average
		point577	577	6,766,960.5	1,834,718.8	992.40				Average
		point377	377	6,766,962.5	1,834,513.9	991.20				Average
		point378	378	6,766,963.5	1,834,126.0	991.20				
Michigan SB	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

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		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

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		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

INPUT: ROADWAYS

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Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40					
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

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		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse SB	12.0	point540	540	6,765,862.0	1,835,377.6	979.00				Average
		point539	539	6,765,848.0	1,835,263.8	975.50				Average
		point538	538	6,765,777.5	1,835,155.6	972.50				Average
		point537	537	6,765,702.5	1,835,060.4	970.50				Average
		point536	536	6,765,620.5	1,834,962.1	969.00				Average
		point535	535	6,765,452.0	1,834,758.2	964.50				
La Crosse (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average

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		point550	550	6,765,886.0	1,835,408.9	981.00					
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50				Average	
		point37	37	6,763,604.0	1,832,456.6	914.50				Average	
		point36	36	6,763,754.5	1,832,654.2	915.10				Average	
		point35	35	6,763,905.5	1,832,849.8	916.10				Average	
		point34	34	6,764,066.0	1,833,033.0	917.00				Average	
		point33	33	6,764,233.5	1,833,215.5	918.50				Average	
		point32	32	6,764,413.0	1,833,410.2	925.00				Average	
		point31	31	6,764,553.5	1,833,563.0	932.00				Average	
		point30	30	6,764,706.0	1,833,725.1	940.00				Average	
		point29	29	6,764,871.5	1,833,906.1	949.00				Average	
		point28	28	6,765,012.0	1,834,058.8	955.00				Average	
		point27	27	6,765,176.5	1,834,233.2	958.90				Average	
		point26	26	6,765,345.5	1,834,416.4	960.20				Average	
		point25	25	6,765,527.5	1,834,612.0	960.80				Average	
		point534	534	6,765,700.5	1,834,797.2	961.60				Average	
		point23	23	6,765,891.0	1,835,003.8	962.10				Average	
		point22	22	6,766,048.5	1,835,174.6	962.90				Average	
		point21	21	6,766,219.5	1,835,357.8	963.20				Average	
		point533	533	6,766,311.0	1,835,456.6	965.60				Average	
		point20	20	6,766,402.5	1,835,555.5	968.00				Average	
		point19	19	6,766,570.5	1,835,735.8	976.00				Average	
		point18	18	6,766,741.5	1,835,920.5	985.00				Average	
		point17	17	6,766,882.5	1,836,070.9	992.00				Average	
		point16	16	6,767,044.5	1,836,249.0	999.00				Average	
		point15	15	6,767,225.5	1,836,441.8	1,004.00				Average	
		point14	14	6,767,407.5	1,836,639.4	1,006.20				Average	
		point13	13	6,767,568.5	1,836,812.4	1,006.40				Average	
		point12	12	6,767,719.0	1,836,975.2	1,007.10				Average	
		point11	11	6,767,875.5	1,837,142.4	1,007.00				Average	
		point10	10	6,768,047.0	1,837,328.5	1,004.90				Average	
		point9	9	6,768,198.0	1,837,490.8	1,002.00				Average	
		point8	8	6,768,380.0	1,837,686.9	998.40				Average	
		point7	7	6,768,531.0	1,837,849.8	995.40				Average	
		point6	6	6,768,688.0	1,838,010.4	993.00				Average	
		point5	5	6,768,836.5	1,838,152.2	990.00				Average	
		point4	4	6,768,994.0	1,838,300.6	985.00				Average	
		point3	3	6,769,165.5	1,838,448.9	979.50				Average	
		point2	2	6,769,345.5	1,838,603.8	973.60				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point1	1	6,769,539.0	1,838,765.9	966.40					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50				Average	
		point156	156	6,769,292.0	1,838,653.6	973.10				Average	
		point155	155	6,769,114.0	1,838,500.6	979.80				Average	
		point154	154	6,768,941.5	1,838,350.8	985.80				Average	
		point153	153	6,768,787.0	1,838,201.9	991.00				Average	
		point152	152	6,768,637.5	1,838,059.1	994.00				Average	
		point151	151	6,768,481.5	1,837,899.8	996.50				Average	
		point150	150	6,768,324.5	1,837,731.5	998.70				Average	
		point149	149	6,768,146.5	1,837,539.2	1,001.90				Average	
		point148	148	6,767,994.0	1,837,374.8	1,004.80				Average	
		point147	147	6,767,820.5	1,837,188.2	1,006.90				Average	
		point146	146	6,767,668.0	1,837,022.6	1,007.10				Average	
		point145	145	6,767,517.0	1,836,860.6	1,006.70				Average	
		point144	144	6,767,356.0	1,836,686.2	1,006.20				Average	
		point532	532	6,767,172.0	1,836,487.9	1,004.00				Average	
		point142	142	6,766,991.0	1,836,292.2	998.90				Average	
		point141	141	6,766,828.5	1,836,116.8	992.00				Average	
		point140	140	6,766,689.5	1,835,966.8	984.50				Average	
		point139	139	6,766,517.0	1,835,781.0	976.00				Average	
		point138	138	6,766,348.0	1,835,599.4	967.80				Average	
		point531	531	6,766,133.0	1,835,368.1	963.30				Average	
		point136	136	6,765,999.5	1,835,223.5	962.80				Average	
		point135	135	6,765,837.0	1,835,048.1	962.20				Average	
		point134	134	6,765,647.5	1,834,843.9	961.70				Average	
		point133	133	6,765,474.0	1,834,657.2	960.90				Average	
		point132	132	6,765,292.5	1,834,461.8	960.40				Average	
		point131	131	6,765,124.5	1,834,280.2	958.70				Average	
		point130	130	6,764,960.5	1,834,102.9	954.80				Average	
		point129	129	6,764,819.5	1,833,952.1	948.40				Average	
		point128	128	6,764,650.5	1,833,769.1	939.80				Average	
		point127	127	6,764,500.5	1,833,607.5	932.00				Average	
		point126	126	6,764,368.5	1,833,463.8	925.50				Average	
		point125	125	6,764,179.0	1,833,259.9	919.50				Average	
		point124	124	6,764,013.0	1,833,077.6	918.20				Average	
		point123	123	6,763,850.5	1,832,887.6	917.10				Average	
		point122	122	6,763,711.5	1,832,715.1	916.30				Average	
		point121	121	6,763,546.0	1,832,498.2	915.40				Average	
		point120	120	6,763,362.0	1,832,252.2	915.40					

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse NB	12.0	point557	557	6,765,466.0	1,834,747.4	966.00				Average	
		point556	556	6,765,633.5	1,834,955.2	969.00				Average	
		point555	555	6,765,713.0	1,835,053.5	971.00				Average	
		point554	554	6,765,794.0	1,835,144.2	973.00				Average	
		point553	553	6,765,864.5	1,835,255.5	976.00				Average	
		point552	552	6,765,905.5	1,835,377.1	979.00					

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

LSA Associates, Inc.																				22 June 2011
Teak Kim																				TNM 2.5
																				Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT:	I-215/Barton Road Interchange																
RUN:	Calibration 02																
BARRIER DESIGN:	INPUT HEIGHTS																
	Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.																
ATMOSPHERICS:	68 deg F, 50% RH																

Receiver														
Name	No.	#DUs	No Barrier				With Barrier							
			Existing LAeq1h	LAeq1h Calculated	Crit'n	Increase over existing Calculated	Type Impact	Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal			
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	dB	
M-2	1	1	0.0	57.4	66	57.4	12	----	57.4	0.0	5	-5.0		
R-2	2	1	0.0	57.9	66	57.9	12	----	57.9	0.0	5	-5.0		
R-3	3	1	0.0	55.7	66	55.7	12	----	55.7	0.0	5	-5.0		
R-4	4	1	0.0	56.1	66	56.1	12	----	56.1	0.0	5	-5.0		
R-5	5	1	0.0	55.3	66	55.3	12	----	55.3	0.0	5	-5.0		
R-6	6	1	0.0	55.1	66	55.1	12	----	55.1	0.0	5	-5.0		
R-7	7	1	0.0	54.1	66	54.1	12	----	54.1	0.0	5	-5.0		
R-8	8	1	0.0	54.6	66	54.6	12	----	54.6	0.0	5	-5.0		
R-9	9	1	0.0	56.5	66	56.5	12	----	56.5	0.0	5	-5.0		
R-10	10	1	0.0	61.0	66	61.0	12	----	61.0	0.0	5	-5.0		
R-11	11	1	0.0	60.1	66	60.1	12	----	60.1	0.0	5	-5.0		
R-12	12	1	0.0	58.8	66	58.8	12	----	58.8	0.0	5	-5.0		
R-13	13	1	0.0	59.6	66	59.6	12	----	59.6	0.0	5	-5.0		
R-14	14	1	0.0	53.8	66	53.8	12	----	53.8	0.0	5	-5.0		
R-15	15	1	0.0	52.2	66	52.2	12	----	52.2	0.0	5	-5.0		
R-16	16	1	0.0	53.7	66	53.7	12	----	53.7	0.0	5	-5.0		
R-138	174	1	0.0	57.6	66	57.6	12	----	57.6	0.0	5	-5.0		

Dwelling Units	# DUs	Noise Reduction		
		Min dB	Avg dB	Max dB
All Selected	17	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.				22 June 2011						
Teak Kim				TNM 2.5						

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT:	I-215/Barton Road Interchange									
RUN:	Calibration 02									
BARRIER DESIGN:	INPUT HEIGHTS									

Barriers										
Name	Type	Heights along Barrier			Length	If Wall	If Berm	Top	Run:Rise	Cost
		Min	Avg	Max						
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$
Existing Wall 5a	W	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777				0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664				0
Existing Wall 4b	W	12.60	12.60	12.60	698	8794				0
Existing Wall 8	W	5.30	5.30	5.30	768	4070				0
Existing Wall 7	W	5.30	5.30	5.30	253	1341				0
Building Barrier 9	W	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	5.00	5.00	5.00	143	716				0
Existing Wall 3	W	5.00	5.00	5.00	160	801				0
Building Barrier 1	W	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	25.00	25.00	25.00	122	3046				0
Building Barrier 4	W	25.00	25.00	25.00	384	9597				0
Building Barrier 5	W	20.00	20.00	20.00	145	2899				0
Building Barrier 6	W	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	15.00	15.00	15.00	145	2168				0
Building Barrier 20	W	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	15.00	15.00	15.00	430	6443				0
Building Barrier 28	W	15.00	15.00	15.00	60	905				0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.		22 June 2011										
Teak Kim		TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:		I-215/Barton Road Interchange										
RUN:		Calibration 02										
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3	point76	76	1307	67	51	61	47	60	0	0	0	0
	point75	75	1307	67	51	61	47	60	0	0	0	0
	point74	74	1307	67	51	61	47	60	0	0	0	0
	point73	73	1307	67	51	61	47	60	0	0	0	0
	point72	72	1307	67	51	61	47	60	0	0	0	0
	point71	71	1307	67	51	61	47	60	0	0	0	0
	point70	70	1307	67	51	61	47	60	0	0	0	0
	point69	69	1307	67	51	61	47	60	0	0	0	0
	point68	68	1307	67	51	61	47	60	0	0	0	0
	point67	67	1307	67	51	61	47	60	0	0	0	0
	point66	66	1307	67	51	61	47	60	0	0	0	0
	point65	65	1307	67	51	61	47	60	0	0	0	0
	point64	64	1307	67	51	61	47	60	0	0	0	0
	point63	63	1307	67	51	61	47	60	0	0	0	0
	point62	62	1307	67	51	61	47	60	0	0	0	0
	point61	61	1307	67	51	61	47	60	0	0	0	0
	point60	60	1307	67	51	61	47	60	0	0	0	0
	point59	59	1307	67	51	61	47	60	0	0	0	0
	point58	58	1307	67	51	61	47	60	0	0	0	0
	point57	57	1307	67	51	61	47	60	0	0	0	0
	point56	56	1307	67	51	61	47	60	0	0	0	0
	point55	55	1307	67	51	61	47	60	0	0	0	0
	point54	54	1307	67	51	61	47	60	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1307	67	51	61	47	60	0	0	0	0
	point52	52	1307	67	51	61	47	60	0	0	0	0
	point51	51	1307	67	51	61	47	60	0	0	0	0
	point50	50	1307	67	51	61	47	60	0	0	0	0
	point49	49	1307	67	51	61	47	60	0	0	0	0
	point48	48	1307	67	51	61	47	60	0	0	0	0
	point47	47	1307	67	51	61	47	60	0	0	0	0
	point46	46	1307	67	51	61	47	60	0	0	0	0
	point45	45	1307	67	51	61	47	60	0	0	0	0
	point44	44	1307	67	51	61	47	60	0	0	0	0
	point43	43	1307	67	51	61	47	60	0	0	0	0
	point42	42	1307	67	51	61	47	60	0	0	0	0
	point41	41	1307	67	51	61	47	60	0	0	0	0
	point40	40	1307	67	51	61	47	60	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1275	67	35	61	63	60	0	0	0	0
	point114	114	1275	67	35	61	63	60	0	0	0	0
	point113	113	1275	67	35	61	63	60	0	0	0	0
	point112	112	1275	67	35	61	63	60	0	0	0	0
	point111	111	1275	67	35	61	63	60	0	0	0	0
	point110	110	1275	67	35	61	63	60	0	0	0	0
	point109	109	1275	67	35	61	63	60	0	0	0	0
	point108	108	1275	67	35	61	63	60	0	0	0	0
	point107	107	1275	67	35	61	63	60	0	0	0	0
	point106	106	1275	67	35	61	63	60	0	0	0	0
	point105	105	1275	67	35	61	63	60	0	0	0	0
	point104	104	1275	67	35	61	63	60	0	0	0	0
	point103	103	1275	67	35	61	63	60	0	0	0	0
	point102	102	1275	67	35	61	63	60	0	0	0	0
	point101	101	1275	67	35	61	63	60	0	0	0	0
	point100	100	1275	67	35	61	63	60	0	0	0	0
	point99	99	1275	67	35	61	63	60	0	0	0	0
	point98	98	1275	67	35	61	63	60	0	0	0	0
	point97	97	1275	67	35	61	63	60	0	0	0	0
	point96	96	1275	67	35	61	63	60	0	0	0	0
	point95	95	1275	67	35	61	63	60	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1275	67	35	61	63	60	0	0	0	0
	point93	93	1275	67	35	61	63	60	0	0	0	0
	point92	92	1275	67	35	61	63	60	0	0	0	0
	point91	91	1275	67	35	61	63	60	0	0	0	0
	point90	90	1275	67	35	61	63	60	0	0	0	0
	point89	89	1275	67	35	61	63	60	0	0	0	0
	point88	88	1275	67	35	61	63	60	0	0	0	0
	point87	87	1275	67	35	61	63	60	0	0	0	0
	point86	86	1275	67	35	61	63	60	0	0	0	0
	point85	85	1275	67	35	61	63	60	0	0	0	0
	point84	84	1275	67	35	61	63	60	0	0	0	0
	point83	83	1275	67	35	61	63	60	0	0	0	0
	point82	82	1275	67	35	61	63	60	0	0	0	0
	point81	81	1275	67	35	61	63	60	0	0	0	0
	point80	80	1275	67	35	61	63	60	0	0	0	0
	point79	79	1275	67	35	61	63	60	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point435	435	0	0	0	0	0	0	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	312	45	32	45	20	40	0	0	0	0
	point218	218	312	45	32	45	20	40	0	0	0	0
	point219	219	312	45	32	45	20	40	0	0	0	0
	point220	220	312	45	32	45	20	40	0	0	0	0
	point221	221	312	45	32	45	20	40	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	312	45	32	45	20	40	0	0	0	0
	point223	223	312	45	32	45	20	40	0	0	0	0
	point224	224	312	45	32	45	20	40	0	0	0	0
	point225	225	312	45	32	45	20	40	0	0	0	0
	point226	226	312	45	32	45	20	40	0	0	0	0
	point227	227	312	45	32	45	20	40	0	0	0	0
	point228	228	312	45	32	45	20	40	0	0	0	0
	point420	420	312	45	32	45	20	40	0	0	0	0
	point229	229										
Barton EB	point257	257	0	0	0	0	0	0	0	0	0	0
	point256	256	0	0	0	0	0	0	0	0	0	0
	point255	255	0	0	0	0	0	0	0	0	0	0
	point254	254	0	0	0	0	0	0	0	0	0	0
	point253	253	0	0	0	0	0	0	0	0	0	0
	point252	252	0	0	0	0	0	0	0	0	0	0
	point251	251	0	0	0	0	0	0	0	0	0	0
	point250	250	0	0	0	0	0	0	0	0	0	0
	point436	436										
Barton EB	point260	260	0	0	0	0	0	0	0	0	0	0
	point421	421	0	0	0	0	0	0	0	0	0	0
	point259	259	0	0	0	0	0	0	0	0	0	0
	point258	258										
Barton WB	point397	397	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point291	291	0	0	0	0	0	0	0	0	0	0
	point290	290										
Barton WB	point304	304	0	0	0	0	0	0	0	0	0	0
	point432	432	0	0	0	0	0	0	0	0	0	0
	point303	303	0	0	0	0	0	0	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	0	0	0	0	0	0	0	0	0	0
	point312	312	0	0	0	0	0	0	0	0	0	0
	point311	311	0	0	0	0	0	0	0	0	0	0
	point310	310	0	0	0	0	0	0	0	0	0	0
	point309	309	0	0	0	0	0	0	0	0	0	0
	point308	308	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	0	0	0	0	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	0	0	0	0	0	0	0	0	0	0
	point403	403	0	0	0	0	0	0	0	0	0	0
	point404	404	0	0	0	0	0	0	0	0	0	0
	point319	319	0	0	0	0	0	0	0	0	0	0
	point318	318	0	0	0	0	0	0	0	0	0	0
	point317	317	0	0	0	0	0	0	0	0	0	0
	point316	316	0	0	0	0	0	0	0	0	0	0
	point315	315	0	0	0	0	0	0	0	0	0	0
	point314	314	0	0	0	0	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	0	0	0	0	0	0	0	0	0	0
	point406	406	0	0	0	0	0	0	0	0	0	0
	point407	407	0	0	0	0	0	0	0	0	0	0
	point326	326	0	0	0	0	0	0	0	0	0	0
	point325	325	0	0	0	0	0	0	0	0	0	0
	point324	324	0	0	0	0	0	0	0	0	0	0
	point323	323	0	0	0	0	0	0	0	0	0	0
	point322	322	0	0	0	0	0	0	0	0	0	0
	point321	321	0	0	0	0	0	0	0	0	0	0
	point425	425	0	0	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	0	0	0	0	0	0	0	0	0	0
	point332	332	0	0	0	0	0	0	0	0	0	0
	point331	331	0	0	0	0	0	0	0	0	0	0
	point330	330	0	0	0	0	0	0	0	0	0	0
	point329	329	0	0	0	0	0	0	0	0	0	0
	point328	328	0	0	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB	point426	426	240	35	20	35	4	30	0	0	0	0
	point363	363	240	35	20	35	4	30	0	0	0	0
	point364	364	240	35	20	35	4	30	0	0	0	0
	point365	365	240	35	20	35	4	30	0	0	0	0
	point366	366	240	35	20	35	4	30	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	240	35	20	35	4	30	0	0	0	0
	point368	368	240	35	20	35	4	30	0	0	0	0
	point430	430	240	35	20	35	4	30	0	0	0	0
	point369	369										
Michigan NB	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB	point431	431	200	35	8	35	4	30	0	0	0	0
	point374	374	200	35	8	35	4	30	0	0	0	0
	point375	375	200	35	8	35	4	30	0	0	0	0
	point376	376	200	35	8	35	4	30	0	0	0	0
	point576	576	200	35	8	35	4	30	0	0	0	0
	point577	577	200	35	8	35	4	30	0	0	0	0
	point377	377	200	35	8	35	4	30	0	0	0	0
	point378	378										
Michigan SB	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB Ln	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point441	441	0	0	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	0	0	0	0	0	0	0	0	0	0
	point249	249	0	0	0	0	0	0	0	0	0	0
	point248	248	0	0	0	0	0	0	0	0	0	0
	point247	247										
Barton WB	point445	445	0	0	0	0	0	0	0	0	0	0
	point434	434	0	0	0	0	0	0	0	0	0	0
	point301	301	0	0	0	0	0	0	0	0	0	0
	point300	300	0	0	0	0	0	0	0	0	0	0
	point422	422	0	0	0	0	0	0	0	0	0	0
	point423	423	0	0	0	0	0	0	0	0	0	0
	point299	299	0	0	0	0	0	0	0	0	0	0
	point298	298	0	0	0	0	0	0	0	0	0	0
	point297	297	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point294	294										
Barton EB	point398	398	0	0	0	0	0	0	0	0	0	0
	point428	428	0	0	0	0	0	0	0	0	0	0
	point429	429	0	0	0	0	0	0	0	0	0	0
	point268	268	0	0	0	0	0	0	0	0	0	0
	point267	267	0	0	0	0	0	0	0	0	0	0
	point266	266	0	0	0	0	0	0	0	0	0	0
	point265	265	0	0	0	0	0	0	0	0	0	0
	point264	264	0	0	0	0	0	0	0	0	0	0
	point263	263	0	0	0	0	0	0	0	0	0	0
	point262	262	0	0	0	0	0	0	0	0	0	0
	point439	439	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	0	0	0	0	0	0	0	0	0	0
	point269	269										
Barton WB	point280	280	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point438	438	0	0	0	0	0	0	0	0	0	0
	point289	289	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point286	286	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point412	412	0	0	0	0	0	0	0	0	0	0
	point413	413	0	0	0	0	0	0	0	0	0	0
	point283	283	0	0	0	0	0	0	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point462	462	0	0	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	0	0	0	0	0	0	0	0	0	0
	point239	239	0	0	0	0	0	0	0	0	0	0
	point238	238	0	0	0	0	0	0	0	0	0	0
	point237	237	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point236	236	0	0	0	0	0	0	0	0	0	0
	point235	235	0	0	0	0	0	0	0	0	0	0
	point234	234	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point232	232	0	0	0	0	0	0	0	0	0	0
	point231	231	0	0	0	0	0	0	0	0	0	0
	point450	450	0	0	0	0	0	0	0	0	0	0
	point451	451	0	0	0	0	0	0	0	0	0	0
	point452	452	0	0	0	0	0	0	0	0	0	0
	point453	453	0	0	0	0	0	0	0	0	0	0
	point454	454	0	0	0	0	0	0	0	0	0	0
	point456	456	0	0	0	0	0	0	0	0	0	0
	point7	522	0	0	0	0	0	0	0	0	0	0
	point6	523	0	0	0	0	0	0	0	0	0	0
	point5	524	0	0	0	0	0	0	0	0	0	0
	point4	525	0	0	0	0	0	0	0	0	0	0
	point3	526	0	0	0	0	0	0	0	0	0	0
	point2	527	0	0	0	0	0	0	0	0	0	0
	point1	528										
La Crosse SB	point540	540	0	0	0	0	0	0	0	0	0	0
	point539	539	0	0	0	0	0	0	0	0	0	0
	point538	538	0	0	0	0	0	0	0	0	0	0
	point537	537	0	0	0	0	0	0	0	0	0	0
	point536	536	0	0	0	0	0	0	0	0	0	0
	point535	535										
La Crosse (northern)	point551	551	0	0	0	0	0	0	0	0	0	0
	point547	547	0	0	0	0	0	0	0	0	0	0
	point548	548	0	0	0	0	0	0	0	0	0	0
	point549	549	0	0	0	0	0	0	0	0	0	0
	point550	550										
I-215 NB Lanes 1 & 2	point38	38	2613	67	101	61	93	60	0	0	0	0
	point37	37	2613	67	101	61	93	60	0	0	0	0
	point36	36	2613	67	101	61	93	60	0	0	0	0
	point35	35	2613	67	101	61	93	60	0	0	0	0
	point34	34	2613	67	101	61	93	60	0	0	0	0
	point33	33	2613	67	101	61	93	60	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point32	32	2613	67	101	61	93	60	0	0	0	0
	point31	31	2613	67	101	61	93	60	0	0	0	0
	point30	30	2613	67	101	61	93	60	0	0	0	0
	point29	29	2613	67	101	61	93	60	0	0	0	0
	point28	28	2613	67	101	61	93	60	0	0	0	0
	point27	27	2613	67	101	61	93	60	0	0	0	0
	point26	26	2613	67	101	61	93	60	0	0	0	0
	point25	25	2613	67	101	61	93	60	0	0	0	0
	point534	534	2613	67	101	61	93	60	0	0	0	0
	point23	23	2613	67	101	61	93	60	0	0	0	0
	point22	22	2613	67	101	61	93	60	0	0	0	0
	point21	21	2613	67	101	61	93	60	0	0	0	0
	point533	533	2613	67	101	61	93	60	0	0	0	0
	point20	20	2613	67	101	61	93	60	0	0	0	0
	point19	19	2613	67	101	61	93	60	0	0	0	0
	point18	18	2613	67	101	61	93	60	0	0	0	0
	point17	17	2613	67	101	61	93	60	0	0	0	0
	point16	16	2613	67	101	61	93	60	0	0	0	0
	point15	15	2613	67	101	61	93	60	0	0	0	0
	point14	14	2613	67	101	61	93	60	0	0	0	0
	point13	13	2613	67	101	61	93	60	0	0	0	0
	point12	12	2613	67	101	61	93	60	0	0	0	0
	point11	11	2613	67	101	61	93	60	0	0	0	0
	point10	10	2613	67	101	61	93	60	0	0	0	0
	point9	9	2613	67	101	61	93	60	0	0	0	0
	point8	8	2613	67	101	61	93	60	0	0	0	0
	point7	7	2613	67	101	61	93	60	0	0	0	0
	point6	6	2613	67	101	61	93	60	0	0	0	0
	point5	5	2613	67	101	61	93	60	0	0	0	0
	point4	4	2613	67	101	61	93	60	0	0	0	0
	point3	3	2613	67	101	61	93	60	0	0	0	0
	point2	2	2613	67	101	61	93	60	0	0	0	0
	point1	1										
I-215 SB Lanes 1 & 2	point157	157	2549	67	69	61	125	60	0	0	0	0
	point156	156	2549	67	69	61	125	60	0	0	0	0
	point155	155	2549	67	69	61	125	60	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point154	154	2549	67	69	61	125	60	0	0	0	0
	point153	153	2549	67	69	61	125	60	0	0	0	0
	point152	152	2549	67	69	61	125	60	0	0	0	0
	point151	151	2549	67	69	61	125	60	0	0	0	0
	point150	150	2549	67	69	61	125	60	0	0	0	0
	point149	149	2549	67	69	61	125	60	0	0	0	0
	point148	148	2549	67	69	61	125	60	0	0	0	0
	point147	147	2549	67	69	61	125	60	0	0	0	0
	point146	146	2549	67	69	61	125	60	0	0	0	0
	point145	145	2549	67	69	61	125	60	0	0	0	0
	point144	144	2549	67	69	61	125	60	0	0	0	0
	point532	532	2549	67	69	61	125	60	0	0	0	0
	point142	142	2549	67	69	61	125	60	0	0	0	0
	point141	141	2549	67	69	61	125	60	0	0	0	0
	point140	140	2549	67	69	61	125	60	0	0	0	0
	point139	139	2549	67	69	61	125	60	0	0	0	0
	point138	138	2549	67	69	61	125	60	0	0	0	0
	point531	531	2549	67	69	61	125	60	0	0	0	0
	point136	136	2549	67	69	61	125	60	0	0	0	0
	point135	135	2549	67	69	61	125	60	0	0	0	0
	point134	134	2549	67	69	61	125	60	0	0	0	0
	point133	133	2549	67	69	61	125	60	0	0	0	0
	point132	132	2549	67	69	61	125	60	0	0	0	0
	point131	131	2549	67	69	61	125	60	0	0	0	0
	point130	130	2549	67	69	61	125	60	0	0	0	0
	point129	129	2549	67	69	61	125	60	0	0	0	0
	point128	128	2549	67	69	61	125	60	0	0	0	0
	point127	127	2549	67	69	61	125	60	0	0	0	0
	point126	126	2549	67	69	61	125	60	0	0	0	0
	point125	125	2549	67	69	61	125	60	0	0	0	0
	point124	124	2549	67	69	61	125	60	0	0	0	0
	point123	123	2549	67	69	61	125	60	0	0	0	0
	point122	122	2549	67	69	61	125	60	0	0	0	0
	point121	121	2549	67	69	61	125	60	0	0	0	0
	point120	120										
La Crosse NB	point557	557	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**I-215/Barton Road Interchange**

	point556	556	0	0	0	0	0	0	0	0	0	0
	point555	555	0	0	0	0	0	0	0	0	0	0
	point554	554	0	0	0	0	0	0	0	0	0	0
	point553	553	0	0	0	0	0	0	0	0	0	0
	point552	552										

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	22 June 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration 03

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	\$ per	\$ per	Top	Run:Rise	\$ per			X	Y	Z	at	Seg	Ht	Perturbs	On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
		ft	ft	Area	Vol.		ft:ft	Length			ft	ft	ft	ft	ment				tions?
				\$/sq ft	\$/cu yd			\$/ft											
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0		
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					

INPUT: BARRIERS

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Existing Wall 1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0		
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0		
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00					
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0		
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0		
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00					
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0		
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0		
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0		
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0		
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00					
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0		
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00					
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0		
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0		
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00					
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0		
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	97	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	96	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	99	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	98	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	101	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	100	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 7	W	0.00	99.99	0.00				0.00	point103	103	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		

INPUT: BARRIERS

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									point102	102	6,768,134.5	1,835,263.8	1,022.00	15.00				
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	105	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	104	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	107	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	106	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	111	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	110	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	113	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	112	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	115	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	114	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point117	117	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point116	116	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point119	119	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point118	118	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point121	121	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point120	120	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	123	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	122	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point125	125	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point124	124	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point127	127	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point126	126	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point129	129	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point128	128	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 31	W	0.00	99.99	0.00			0.00	point131	131	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point130	130	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00			0.00	point133	133	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point132	132	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00			0.00	point135	135	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point134	134	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00			0.00	point137	137	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point136	136	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00			0.00	point139	139	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point138	138	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00			0.00	point141	141	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point140	140	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00			0.00	point143	143	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point142	142	6,765,577.0	1,837,024.2	979.30	15.00					
Existing wall 9	W	0.00	99.99	0.00			0.00	point97	149	6,766,517.5	1,835,485.5	986.00	6.00	0.00	0	0		
								point98	150	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
								point99	151	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
								point100	152	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
								point101	153	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
								point102	154	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	155	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	156	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	157	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	158	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point119	159	6,767,311.5	1,836,437.0	1,007.20	6.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point252	160	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
								point118	161	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
								point117	162	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
								point116	163	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point253	164	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
								point115	165	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
								point114	166	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
								point113	167	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
								point217	168	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
								point218	169	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
								point219	170	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
								point220	171	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
								point221	172	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
								point245	173	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
								point246	174	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
								point247	175	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
								point248	176	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
								point249	177	6,767,675.5	1,836,811.1	1,011.00	6.00					
Barrier56	W	0.00	99.99	0.00			0.00	point256	178	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
								point250	179	6,767,715.0	1,836,788.8	1,013.50	5.00					
Barrier57	W	0.00	99.99	0.00			0.00	point255	180	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
								point251	181	6,767,816.0	1,836,961.2	1,016.00	5.00					

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.										
Teak Kim										

22 June 2011

TNM 2.5

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Calibration 03

BARRIER DESIGN: INPUT HEIGHTS

Barriers										
Name	Type	Heights along Barrier			Length	If Wall	If Berm	Top	Run:Rise	Cost
		Min	Avg	Max						
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$
Existing Wall 5a	W	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777				0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664				0
Existing Wall 4b	W	12.60	12.60	12.60	698	8794				0
Existing Wall 8	W	5.30	5.30	5.30	768	4070				0
Existing Wall 7	W	5.30	5.30	5.30	253	1341				0
Building Barrier 9	W	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	5.00	5.00	5.00	143	716				0
Existing Wall 3	W	5.00	5.00	5.00	160	801				0
Building Barrier 1	W	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	25.00	25.00	25.00	122	3046				0
Building Barrier 4	W	25.00	25.00	25.00	384	9597				0
Building Barrier 5	W	20.00	20.00	20.00	145	2899				0
Building Barrier 6	W	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	15.00	15.00	15.00	145	2168				0
Building Barrier 20	W	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	15.00	15.00	15.00	430	6443				0
Building Barrier 28	W	15.00	15.00	15.00	60	905				0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.													22 June 2011
Teak Kim													TNM 2.5

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange
RUN: Calibration 03
BARRIER DESIGN: INPUT HEIGHTS

Barriers		Segments										
Name	Type	Name	No.	Heights			Length	If Wall			If Berm	Cost
				First Point	Average	Second Point		Area	On Struc?	Important Reflections?	Volume	
				ft	ft	ft	ft	sq ft			cu yd	\$
Existing Wall 5a	W	point1	1	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	point12	12	6.00	6.00	6.00	175	1053				0
		point3	3	6.00	6.00	6.00	175	1048				0
		point4	4	6.00	6.00	6.00	175	1051				0
		point5	5	6.00	6.00	6.00	35	211				0
		point6	6	6.00	6.00	6.00	76	458				0
		point7	7	6.00	6.00	6.00	21	124				0
		point8	8	6.00	6.00	6.00	187	1124				0
		point9	9	6.00	6.00	6.00	66	397				0
		point10	10	6.00	6.00	6.00	52	312				0
Existing Wall 4a	W	point13	13	8.00	8.00	8.00	48	385				0
		point14	14	8.00	8.00	8.00	6	49				0
		point15	15	8.00	8.00	8.00	154	1230				0
Existing Wall 4b	W	point20	20	12.60	12.60	12.60	164	2068				0
		point17	17	12.60	12.60	12.60	236	2967				0
		point18	18	12.60	12.60	12.60	298	3759				0
Existing Wall 8	W	point21	21	5.30	5.30	5.30	115	610				0
		point22	22	5.30	5.30	5.30	128	676				0
		point23	23	5.30	5.30	5.30	218	1153				0
		point24	24	5.30	5.30	5.30	138	730				0
		point25	25	5.30	5.30	5.30	30	161				0
		point26	26	5.30	5.30	5.30	5	27				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point27	27	5.30	5.30	5.30	81	427				0
		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 9	W	point44	44	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	point46	46	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	point48	48	5.00	5.00	5.00	78	388				0
		point49	49	5.00	5.00	5.00	65	327				0
Existing Wall 3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 28	W	point97	97	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	point99	99	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	point101	101	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	point103	103	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	point105	105	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	point107	107	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	point111	111	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	point113	113	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	115	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	point117	117	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	point119	119	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	point121	121	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	point123	123	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	point125	125	15.00	15.00	15.00	45	679				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 26	W	point127	127	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	point129	129	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	point131	131	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	point133	133	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	point135	135	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	point137	137	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	point139	139	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	point141	141	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	point143	143	15.00	15.00	15.00	46	687				0
Existing wall 9	W	point97	149	6.00	6.00	6.00	59	351				0
		point98	150	6.00	6.00	6.00	129	771				0
		point99	151	6.00	6.00	6.00	109	654				0
		point100	152	6.00	6.00	6.00	120	720				0
		point101	153	6.00	6.00	6.00	115	687				0
Building Barrier 12	W	point126	155	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	point121	157	6.00	6.00	6.00	54	321				0
		point120	158	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	160	7.00	7.00	7.00	29	201				0
		point118	161	7.00	7.00	7.00	72	507				0
		point117	162	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	164	6.00	6.00	6.00	72	430				0
		point115	165	6.00	6.00	6.00	10	60				0
		point114	166	6.00	6.00	6.00	81	485				0
		point113	167	6.00	6.00	6.00	3	20				0
		point217	168	6.00	6.00	6.00	36	214				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point218	169	6.00	6.00	6.00	9	51				0
		point219	170	6.00	6.00	6.00	27	164				0
		point220	171	6.00	6.00	6.00	3	20				0
		point221	172	6.00	6.00	6.00	8	49				0
		point245	173	6.00	6.00	6.00	81	483				0
		point246	174	6.00	6.00	6.00	124	743				0
		point247	175	6.00	6.00	6.00	44	262				0
		point248	176	6.00	6.00	6.00	72	435				0
Barrier56	W	point256	178	5.00	5.00	5.00	45	227				0
Barrier57	W	point255	180	5.00	5.00	5.00	127	633				0

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.			22 June 2011			
Teak Kim			TNM 2.5			
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:			I-215/Barton Road Interchange			
RUN:			Calibration 03			
Building Row			Points			
Name	Average Height	Building Percent	No.	Coordinates (ground)		
	ft	%		X	Y	Z
				ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building11	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

INPUT: RECEIVERS

I-215/Barton Road Interchange

LSA Associates, Inc.							22 June 2011				
Teak Kim							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		I-215/Barton Road Interchange									
RUN:		Calibration 03									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R-17	1	1	6,768,122.0	1,835,232.2	1,023.00	5.00	0.00	66	12.0	5.0	
R-18	2	1	6,767,763.0	1,835,637.0	1,010.00	5.00	0.00	66	12.0	5.0	
R-19	3	1	6,767,862.5	1,835,546.9	1,012.00	5.00	0.00	66	12.0	5.0	
R-20/M-3	4	1	6,767,986.5	1,835,567.2	1,015.00	5.00	0.00	66	12.0	5.0	
R-21	5	1	6,768,088.5	1,835,594.8	1,018.00	5.00	0.00	66	12.0	5.0	
R-142	173	1	6,767,362.0	1,835,298.0	1,001.60	5.00	0.00	66	12.0	5.0	Y
R-143	174	1	6,767,765.5	1,835,318.6	1,010.00	5.00	0.00	66	12.0	5.0	Y

INPUT: ROADWAYS

I-215/Barton Road Interchange

LSA Associates, Inc.					22 June 2011					
Teak Kim					TNM 2.5					

INPUT: ROADWAYS										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA
PROJECT/CONTRACT:	I-215/Barton Road Interchange									
RUN:	Calibration 03									

Roadway	Width	Points	Coordinates (pavement)			Flow Control			Segment		
Name		Name	No.	X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
I-215 NB Lane 3	36.0	point76	76	6,763,402.0	1,832,218.9	915.20				Average	
		point75	75	6,763,588.5	1,832,466.2	915.20				Average	
		point74	74	6,763,739.5	1,832,664.8	915.60				Average	
		point73	73	6,763,892.0	1,832,859.2	916.50				Average	
		point72	72	6,764,051.5	1,833,044.8	917.70				Average	
		point71	71	6,764,219.0	1,833,227.5	919.20				Average	
		point70	70	6,764,399.5	1,833,422.5	925.20				Average	
		point69	69	6,764,540.5	1,833,573.9	932.10				Average	
		point68	68	6,764,691.0	1,833,736.1	940.00				Average	
		point67	67	6,764,858.5	1,833,916.9	949.00				Average	
		point66	66	6,764,998.5	1,834,069.9	955.20				Average	
		point65	65	6,765,162.0	1,834,245.8	959.20				Average	
		point64	64	6,765,331.0	1,834,427.2	960.40				Average	
		point63	63	6,765,512.5	1,834,623.5	961.20				Average	
		point62	62	6,765,686.0	1,834,810.2	961.90				Average	
		point61	61	6,765,876.0	1,835,015.1	962.30				Average	
		point60	60	6,766,035.5	1,835,186.2	962.90				Average	
		point59	59	6,766,204.0	1,835,368.2	963.00				Average	
		point58	58	6,766,388.0	1,835,567.0	968.10				Average	
		point57	57	6,766,556.0	1,835,748.0	976.00				Average	
		point56	56	6,766,728.5	1,835,933.0	985.00				Average	
		point55	55	6,766,867.0	1,836,084.2	992.00				Average	
		point54	54	6,767,030.5	1,836,259.8	999.10				Average	
		point53	53	6,767,211.0	1,836,453.8	1,004.30				Average	
		point52	52	6,767,393.5	1,836,651.6	1,006.70				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average
		point46	46	6,768,365.0	1,837,698.0	998.70				Average
		point45	45	6,768,518.0	1,837,862.1	995.60				Average
		point44	44	6,768,674.5	1,838,022.8	993.30				Average
		point43	43	6,768,823.5	1,838,166.2	990.10				Average
		point42	42	6,768,980.5	1,838,313.8	985.20				Average
		point41	41	6,769,152.5	1,838,462.6	979.50				Average
		point40	40	6,769,332.5	1,838,617.5	973.70				Average
		point39	39	6,769,526.0	1,838,779.8	966.90				
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average
		point114	114	6,769,306.0	1,838,640.9	973.60				Average
		point113	113	6,769,128.0	1,838,488.2	979.80				Average
		point112	112	6,768,955.5	1,838,338.1	985.60				Average
		point111	111	6,768,799.0	1,838,190.2	990.80				Average
		point110	110	6,768,650.0	1,838,046.2	993.50				Average
		point109	109	6,768,494.0	1,837,885.0	996.00				Average
		point108	108	6,768,337.5	1,837,718.9	998.70				Average
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average
		point100	100	6,767,004.0	1,836,280.2	999.10				Average
		point99	99	6,766,841.5	1,836,104.6	992.10				Average
		point98	98	6,766,703.0	1,835,954.8	984.90				Average
		point97	97	6,766,530.0	1,835,768.2	976.10				Average
		point96	96	6,766,361.5	1,835,587.1	967.90				Average
		point95	95	6,766,157.5	1,835,368.2	963.10				Average
		point94	94	6,766,012.5	1,835,211.8	963.00				Average
		point93	93	6,765,850.5	1,835,035.8	962.30				Average
		point92	92	6,765,661.0	1,834,831.2	961.80				Average
		point91	91	6,765,487.5	1,834,644.8	961.20				Average
		point90	90	6,765,305.5	1,834,449.4	960.40				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00				Average	
		point256	256	6,764,014.5	1,835,366.4	953.50				Average	
		point255	255	6,764,147.0	1,835,365.4	953.00				Average	
		point254	254	6,764,493.5	1,835,375.1	965.50				Average	
		point253	253	6,764,793.0	1,835,380.8	979.70				Average	
		point252	252	6,765,094.5	1,835,380.8	972.00				Average	
		point251	251	6,765,404.5	1,835,380.8	973.00				Average	
		point250	250	6,765,697.0	1,835,379.8	977.30				Average	
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50				Average	
		point421	421	6,766,581.5	1,835,376.4	986.50				Average	
		point259	259	6,766,754.0	1,835,377.4	989.00				Average	
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100	Average	
		point292	292	6,766,902.5	1,835,415.9	992.60				Average	
		point291	291	6,766,755.5	1,835,415.0	989.20				Average	
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00				Average	
		point432	432	6,766,404.5	1,835,412.9	984.70				Average	
		point303	303	6,766,337.5	1,835,409.2	985.00				Average	Y
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50				Average	
		point312	312	6,765,393.5	1,835,410.8	972.50				Average	
		point311	311	6,765,428.5	1,835,587.1	971.00				Average	
		point310	310	6,765,470.0	1,835,755.1	970.50				Average	
		point309	309	6,765,519.5	1,836,010.5	972.00				Average	
		point308	308	6,765,571.5	1,836,274.8	974.00				Average	
		point307	307	6,765,596.5	1,836,444.6	976.00				Average	
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100	Average	
		point403	403	6,765,707.0	1,837,002.5	978.70				Average	
		point404	404	6,765,713.5	1,837,015.4	978.00				Average	
		point319	319	6,765,725.5	1,837,037.5	977.40				Average	
		point318	318	6,765,777.5	1,837,150.5	969.50				Average	
		point317	317	6,765,800.5	1,837,183.2	969.50				Average	
		point316	316	6,765,829.5	1,837,210.5	969.50				Average	
		point315	315	6,765,853.0	1,837,247.2	969.50				Average	
		point314	314	6,765,892.0	1,837,349.2	969.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

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		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

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		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

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Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40				Average	
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

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		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse SB	12.0	point540	540	6,765,862.0	1,835,377.6	979.00				Average
		point539	539	6,765,848.0	1,835,263.8	975.50				Average
		point538	538	6,765,777.5	1,835,155.6	972.50				Average
		point537	537	6,765,702.5	1,835,060.4	970.50				Average
		point536	536	6,765,620.5	1,834,962.1	969.00				Average
		point535	535	6,765,452.0	1,834,758.2	964.50				
La Crosse (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average

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		point550	550	6,765,886.0	1,835,408.9	981.00					
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50				Average	
		point37	37	6,763,604.0	1,832,456.6	914.50				Average	
		point36	36	6,763,754.5	1,832,654.2	915.10				Average	
		point35	35	6,763,905.5	1,832,849.8	916.10				Average	
		point34	34	6,764,066.0	1,833,033.0	917.00				Average	
		point33	33	6,764,233.5	1,833,215.5	918.50				Average	
		point32	32	6,764,413.0	1,833,410.2	925.00				Average	
		point31	31	6,764,553.5	1,833,563.0	932.00				Average	
		point30	30	6,764,706.0	1,833,725.1	940.00				Average	
		point29	29	6,764,871.5	1,833,906.1	949.00				Average	
		point28	28	6,765,012.0	1,834,058.8	955.00				Average	
		point27	27	6,765,176.5	1,834,233.2	958.90				Average	
		point26	26	6,765,345.5	1,834,416.4	960.20				Average	
		point25	25	6,765,527.5	1,834,612.0	960.80				Average	
		point534	534	6,765,700.5	1,834,797.2	961.60				Average	
		point23	23	6,765,891.0	1,835,003.8	962.10				Average	
		point22	22	6,766,048.5	1,835,174.6	962.90				Average	
		point21	21	6,766,219.5	1,835,357.8	963.20				Average	
		point533	533	6,766,311.0	1,835,456.6	965.60				Average	
		point20	20	6,766,402.5	1,835,555.5	968.00				Average	
		point19	19	6,766,570.5	1,835,735.8	976.00				Average	
		point18	18	6,766,741.5	1,835,920.5	985.00				Average	
		point17	17	6,766,882.5	1,836,070.9	992.00				Average	
		point16	16	6,767,044.5	1,836,249.0	999.00				Average	
		point15	15	6,767,225.5	1,836,441.8	1,004.00				Average	
		point14	14	6,767,407.5	1,836,639.4	1,006.20				Average	
		point13	13	6,767,568.5	1,836,812.4	1,006.40				Average	
		point12	12	6,767,719.0	1,836,975.2	1,007.10				Average	
		point11	11	6,767,875.5	1,837,142.4	1,007.00				Average	
		point10	10	6,768,047.0	1,837,328.5	1,004.90				Average	
		point9	9	6,768,198.0	1,837,490.8	1,002.00				Average	
		point8	8	6,768,380.0	1,837,686.9	998.40				Average	
		point7	7	6,768,531.0	1,837,849.8	995.40				Average	
		point6	6	6,768,688.0	1,838,010.4	993.00				Average	
		point5	5	6,768,836.5	1,838,152.2	990.00				Average	
		point4	4	6,768,994.0	1,838,300.6	985.00				Average	
		point3	3	6,769,165.5	1,838,448.9	979.50				Average	
		point2	2	6,769,345.5	1,838,603.8	973.60				Average	

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		point1	1	6,769,539.0	1,838,765.9	966.40					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50					Average
		point156	156	6,769,292.0	1,838,653.6	973.10					Average
		point155	155	6,769,114.0	1,838,500.6	979.80					Average
		point154	154	6,768,941.5	1,838,350.8	985.80					Average
		point153	153	6,768,787.0	1,838,201.9	991.00					Average
		point152	152	6,768,637.5	1,838,059.1	994.00					Average
		point151	151	6,768,481.5	1,837,899.8	996.50					Average
		point150	150	6,768,324.5	1,837,731.5	998.70					Average
		point149	149	6,768,146.5	1,837,539.2	1,001.90					Average
		point148	148	6,767,994.0	1,837,374.8	1,004.80					Average
		point147	147	6,767,820.5	1,837,188.2	1,006.90					Average
		point146	146	6,767,668.0	1,837,022.6	1,007.10					Average
		point145	145	6,767,517.0	1,836,860.6	1,006.70					Average
		point144	144	6,767,356.0	1,836,686.2	1,006.20					Average
		point532	532	6,767,172.0	1,836,487.9	1,004.00					Average
		point142	142	6,766,991.0	1,836,292.2	998.90					Average
		point141	141	6,766,828.5	1,836,116.8	992.00					Average
		point140	140	6,766,689.5	1,835,966.8	984.50					Average
		point139	139	6,766,517.0	1,835,781.0	976.00					Average
		point138	138	6,766,348.0	1,835,599.4	967.80					Average
		point531	531	6,766,133.0	1,835,368.1	963.30					Average
		point136	136	6,765,999.5	1,835,223.5	962.80					Average
		point135	135	6,765,837.0	1,835,048.1	962.20					Average
		point134	134	6,765,647.5	1,834,843.9	961.70					Average
		point133	133	6,765,474.0	1,834,657.2	960.90					Average
		point132	132	6,765,292.5	1,834,461.8	960.40					Average
		point131	131	6,765,124.5	1,834,280.2	958.70					Average
		point130	130	6,764,960.5	1,834,102.9	954.80					Average
		point129	129	6,764,819.5	1,833,952.1	948.40					Average
		point128	128	6,764,650.5	1,833,769.1	939.80					Average
		point127	127	6,764,500.5	1,833,607.5	932.00					Average
		point126	126	6,764,368.5	1,833,463.8	925.50					Average
		point125	125	6,764,179.0	1,833,259.9	919.50					Average
		point124	124	6,764,013.0	1,833,077.6	918.20					Average
		point123	123	6,763,850.5	1,832,887.6	917.10					Average
		point122	122	6,763,711.5	1,832,715.1	916.30					Average
		point121	121	6,763,546.0	1,832,498.2	915.40					Average
		point120	120	6,763,362.0	1,832,252.2	915.40					

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse NB	12.0	point557	557	6,765,466.0	1,834,747.4	966.00				Average	
		point556	556	6,765,633.5	1,834,955.2	969.00				Average	
		point555	555	6,765,713.0	1,835,053.5	971.00				Average	
		point554	554	6,765,794.0	1,835,144.2	973.00				Average	
		point553	553	6,765,864.5	1,835,255.5	976.00				Average	
		point552	552	6,765,905.5	1,835,377.1	979.00					

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

LSA Associates, Inc.						22 June 2011						
Teak Kim						TNM 2.5						
						Calculated with TNM 2.5						
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:			I-215/Barton Road Interchange									
RUN:			Calibration 03									
BARRIER DESIGN:			INPUT HEIGHTS						Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.			
ATMOSPHERICS:			68 deg F, 50% RH									
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R-17	1	1	0.0	56.6	66	56.6	12	----	56.6	0.0	5	-5.0
R-18	2	1	0.0	55.5	66	55.5	12	----	55.5	0.0	5	-5.0
R-19	3	1	0.0	58.5	66	58.5	12	----	58.5	0.0	5	-5.0
R-20/M-3	4	1	0.0	53.7	66	53.7	12	----	53.7	0.0	5	-5.0
R-21	5	1	0.0	55.5	66	55.5	12	----	55.5	0.0	5	-5.0
R-142	173	1	0.0	64.2	66	64.2	12	----	64.2	0.0	5	-5.0
R-143	174	1	0.0	63.9	66	63.9	12	----	63.9	0.0	5	-5.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		7	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

LSA Associates, Inc.			22 June 2011	
Teak Kim			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	I-215/Barton Road Interchange			
RUN:	Calibration 03			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,764,381.5	1,833,279.8	942.00
	2	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,016.5	1,833,967.0	943.00
	6	6,765,092.0	1,834,055.4	945.00
	7	6,765,258.0	1,834,237.6	954.00
	8	6,765,400.0	1,834,395.8	960.00
	9	6,765,541.0	1,834,544.6	964.00
	10	6,765,738.0	1,834,749.4	972.00
Terrain Line6	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	16	6,766,314.0	1,835,368.2	984.00
Terrain Line7	22	6,766,507.0	1,835,493.1	986.00
	23	6,766,573.5	1,835,591.8	987.00
	24	6,766,630.0	1,835,668.0	987.00
	25	6,766,679.5	1,835,723.8	989.00
	26	6,766,758.0	1,835,818.9	990.00
	27	6,766,863.0	1,835,948.1	994.00
	28	6,766,975.0	1,836,081.6	998.00
	29	6,767,078.5	1,836,200.6	1,001.00
	30	6,767,228.0	1,836,360.2	1,004.00
	31	6,767,393.0	1,836,514.6	1,010.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00
	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line15	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00

INPUT: TERRAIN LINES**I-215/Barton Road Interchange**

	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line14	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line11	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
	99	6,766,171.0	1,835,508.8	985.00
	100	6,766,103.5	1,835,420.1	982.00
Terrain Line8	102	6,767,393.0	1,836,514.6	1,010.00
	32	6,767,432.0	1,836,546.8	1,010.00
Terrain Line9	106	6,767,811.0	1,836,956.8	1,015.00
	37	6,767,911.0	1,837,066.2	1,017.00
	38	6,767,981.5	1,837,102.2	1,020.00
Terrain Line5	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,206.5	1,835,144.8	975.00
Terrain Line13	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,149.0	1,836,589.2	992.00
Terrain Line12	125	6,765,595.0	1,835,437.0	980.00
	126	6,765,566.0	1,835,436.2	979.30
	127	6,765,445.5	1,835,448.2	976.50

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.				22 June 2011									
Teak Kim				TNM 2.5									
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		I-215/Barton Road Interchange											
RUN:		Calibration 03											
Roadway		Points											
Name		Name	No.	Segment									
				Autos		MTrucks		HTrucks		Buses		Motorcycles	
				V	S	V	S	V	S	V	S	V	S
				veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3		point76	76	1363	61	95	51	53	52	0	0	0	0
		point75	75	1363	61	95	51	53	52	0	0	0	0
		point74	74	1363	61	95	51	53	52	0	0	0	0
		point73	73	1363	61	95	51	53	52	0	0	0	0
		point72	72	1363	61	95	51	53	52	0	0	0	0
		point71	71	1363	61	95	51	53	52	0	0	0	0
		point70	70	1363	61	95	51	53	52	0	0	0	0
		point69	69	1363	61	95	51	53	52	0	0	0	0
		point68	68	1363	61	95	51	53	52	0	0	0	0
		point67	67	1363	61	95	51	53	52	0	0	0	0
		point66	66	1363	61	95	51	53	52	0	0	0	0
		point65	65	1363	61	95	51	53	52	0	0	0	0
		point64	64	1363	61	95	51	53	52	0	0	0	0
		point63	63	1363	61	95	51	53	52	0	0	0	0
		point62	62	1363	61	95	51	53	52	0	0	0	0
		point61	61	1363	61	95	51	53	52	0	0	0	0
		point60	60	1363	61	95	51	53	52	0	0	0	0
		point59	59	1363	61	95	51	53	52	0	0	0	0
		point58	58	1363	61	95	51	53	52	0	0	0	0
		point57	57	1363	61	95	51	53	52	0	0	0	0
		point56	56	1363	61	95	51	53	52	0	0	0	0
		point55	55	1363	61	95	51	53	52	0	0	0	0
		point54	54	1363	61	95	51	53	52	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1363	61	95	51	53	52	0	0	0	0
	point52	52	1363	61	95	51	53	52	0	0	0	0
	point51	51	1363	61	95	51	53	52	0	0	0	0
	point50	50	1363	61	95	51	53	52	0	0	0	0
	point49	49	1363	61	95	51	53	52	0	0	0	0
	point48	48	1363	61	95	51	53	52	0	0	0	0
	point47	47	1363	61	95	51	53	52	0	0	0	0
	point46	46	1363	61	95	51	53	52	0	0	0	0
	point45	45	1363	61	95	51	53	52	0	0	0	0
	point44	44	1363	61	95	51	53	52	0	0	0	0
	point43	43	1363	61	95	51	53	52	0	0	0	0
	point42	42	1363	61	95	51	53	52	0	0	0	0
	point41	41	1363	61	95	51	53	52	0	0	0	0
	point40	40	1363	61	95	51	53	52	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1171	61	36	51	48	52	0	0	0	0
	point114	114	1171	61	36	51	48	52	0	0	0	0
	point113	113	1171	61	36	51	48	52	0	0	0	0
	point112	112	1171	61	36	51	48	52	0	0	0	0
	point111	111	1171	61	36	51	48	52	0	0	0	0
	point110	110	1171	61	36	51	48	52	0	0	0	0
	point109	109	1171	61	36	51	48	52	0	0	0	0
	point108	108	1171	61	36	51	48	52	0	0	0	0
	point107	107	1171	61	36	51	48	52	0	0	0	0
	point106	106	1171	61	36	51	48	52	0	0	0	0
	point105	105	1171	61	36	51	48	52	0	0	0	0
	point104	104	1171	61	36	51	48	52	0	0	0	0
	point103	103	1171	61	36	51	48	52	0	0	0	0
	point102	102	1171	61	36	51	48	52	0	0	0	0
	point101	101	1171	61	36	51	48	52	0	0	0	0
	point100	100	1171	61	36	51	48	52	0	0	0	0
	point99	99	1171	61	36	51	48	52	0	0	0	0
	point98	98	1171	61	36	51	48	52	0	0	0	0
	point97	97	1171	61	36	51	48	52	0	0	0	0
	point96	96	1171	61	36	51	48	52	0	0	0	0
	point95	95	1171	61	36	51	48	52	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1171	61	36	51	48	52	0	0	0	0
	point93	93	1171	61	36	51	48	52	0	0	0	0
	point92	92	1171	61	36	51	48	52	0	0	0	0
	point91	91	1171	61	36	51	48	52	0	0	0	0
	point90	90	1171	61	36	51	48	52	0	0	0	0
	point89	89	1171	61	36	51	48	52	0	0	0	0
	point88	88	1171	61	36	51	48	52	0	0	0	0
	point87	87	1171	61	36	51	48	52	0	0	0	0
	point86	86	1171	61	36	51	48	52	0	0	0	0
	point85	85	1171	61	36	51	48	52	0	0	0	0
	point84	84	1171	61	36	51	48	52	0	0	0	0
	point83	83	1171	61	36	51	48	52	0	0	0	0
	point82	82	1171	61	36	51	48	52	0	0	0	0
	point81	81	1171	61	36	51	48	52	0	0	0	0
	point80	80	1171	61	36	51	48	52	0	0	0	0
	point79	79	1171	61	36	51	48	52	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point435	435	0	0	0	0	0	0	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	0	0	0	0	0	0	0	0	0	0
	point223	223	0	0	0	0	0	0	0	0	0	0
	point224	224	0	0	0	0	0	0	0	0	0	0
	point225	225	0	0	0	0	0	0	0	0	0	0
	point226	226	0	0	0	0	0	0	0	0	0	0
	point227	227	0	0	0	0	0	0	0	0	0	0
	point228	228	0	0	0	0	0	0	0	0	0	0
	point420	420	0	0	0	0	0	0	0	0	0	0
	point229	229										
Barton EB	point257	257	0	0	0	0	0	0	0	0	0	0
	point256	256	0	0	0	0	0	0	0	0	0	0
	point255	255	0	0	0	0	0	0	0	0	0	0
	point254	254	0	0	0	0	0	0	0	0	0	0
	point253	253	0	0	0	0	0	0	0	0	0	0
	point252	252	0	0	0	0	0	0	0	0	0	0
	point251	251	0	0	0	0	0	0	0	0	0	0
	point250	250	0	0	0	0	0	0	0	0	0	0
	point436	436										
Barton EB	point260	260	420	40	24	40	4	35	0	0	0	0
	point421	421	420	40	24	40	4	35	0	0	0	0
	point259	259	420	40	24	40	4	35	0	0	0	0
	point258	258										
Barton WB	point397	397	396	40	12	40	12	35	0	0	0	0
	point292	292	396	40	12	40	12	35	0	0	0	0
	point291	291	396	40	12	40	12	35	0	0	0	0
	point290	290										
Barton WB	point304	304	396	40	12	40	12	35	0	0	0	0
	point432	432	396	40	12	40	12	35	0	0	0	0
	point303	303	396	40	12	40	12	35	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	0	0	0	0	0	0	0	0	0	0
	point312	312	0	0	0	0	0	0	0	0	0	0
	point311	311	0	0	0	0	0	0	0	0	0	0
	point310	310	0	0	0	0	0	0	0	0	0	0
	point309	309	0	0	0	0	0	0	0	0	0	0
	point308	308	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	0	0	0	0	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	0	0	0	0	0	0	0	0	0	0
	point403	403	0	0	0	0	0	0	0	0	0	0
	point404	404	0	0	0	0	0	0	0	0	0	0
	point319	319	0	0	0	0	0	0	0	0	0	0
	point318	318	0	0	0	0	0	0	0	0	0	0
	point317	317	0	0	0	0	0	0	0	0	0	0
	point316	316	0	0	0	0	0	0	0	0	0	0
	point315	315	0	0	0	0	0	0	0	0	0	0
	point314	314	0	0	0	0	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	0	0	0	0	0	0	0	0	0	0
	point406	406	0	0	0	0	0	0	0	0	0	0
	point407	407	0	0	0	0	0	0	0	0	0	0
	point326	326	0	0	0	0	0	0	0	0	0	0
	point325	325	0	0	0	0	0	0	0	0	0	0
	point324	324	0	0	0	0	0	0	0	0	0	0
	point323	323	0	0	0	0	0	0	0	0	0	0
	point322	322	0	0	0	0	0	0	0	0	0	0
	point321	321	0	0	0	0	0	0	0	0	0	0
	point425	425	0	0	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	0	0	0	0	0	0	0	0	0	0
	point332	332	0	0	0	0	0	0	0	0	0	0
	point331	331	0	0	0	0	0	0	0	0	0	0
	point330	330	0	0	0	0	0	0	0	0	0	0
	point329	329	0	0	0	0	0	0	0	0	0	0
	point328	328	0	0	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB	point426	426	0	0	0	0	0	0	0	0	0	0
	point363	363	0	0	0	0	0	0	0	0	0	0
	point364	364	0	0	0	0	0	0	0	0	0	0
	point365	365	0	0	0	0	0	0	0	0	0	0
	point366	366	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	0	0	0	0	0	0	0	0	0	0
	point368	368	0	0	0	0	0	0	0	0	0	0
	point430	430	0	0	0	0	0	0	0	0	0	0
	point369	369										
Michigan NB	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB	point431	431	0	0	0	0	0	0	0	0	0	0
	point374	374	0	0	0	0	0	0	0	0	0	0
	point375	375	0	0	0	0	0	0	0	0	0	0
	point376	376	0	0	0	0	0	0	0	0	0	0
	point377	377	0	0	0	0	0	0	0	0	0	0
	point378	378	0	0	0	0	0	0	0	0	0	0
	point379	379	0	0	0	0	0	0	0	0	0	0
	point380	380										
Michigan SB	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB Ln	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point441	441	0	0	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	420	40	24	40	4	35	0	0	0	0
	point249	249	420	40	24	40	4	35	0	0	0	0
	point248	248	420	40	24	40	4	35	0	0	0	0
	point247	247										
Barton WB	point445	445	0	0	0	0	0	0	0	0	0	0
	point434	434	0	0	0	0	0	0	0	0	0	0
	point301	301	0	0	0	0	0	0	0	0	0	0
	point300	300	0	0	0	0	0	0	0	0	0	0
	point422	422	0	0	0	0	0	0	0	0	0	0
	point423	423	0	0	0	0	0	0	0	0	0	0
	point299	299	0	0	0	0	0	0	0	0	0	0
	point298	298	0	0	0	0	0	0	0	0	0	0
	point297	297	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point294	294										
Barton EB	point398	398	420	40	24	40	4	35	0	0	0	0
	point428	428	420	40	24	40	4	35	0	0	0	0
	point429	429	420	40	24	40	4	35	0	0	0	0
	point268	268	420	40	24	40	4	35	0	0	0	0
	point267	267	420	40	24	40	4	35	0	0	0	0
	point266	266	420	40	24	40	4	35	0	0	0	0
	point265	265	420	40	24	40	4	35	0	0	0	0
	point264	264	420	40	24	40	4	35	0	0	0	0
	point263	263	420	40	24	40	4	35	0	0	0	0
	point262	262	420	40	24	40	4	35	0	0	0	0
	point439	439	420	40	24	40	4	35	0	0	0	0
	point273	273	420	40	24	40	4	35	0	0	0	0
	point272	272	420	40	24	40	4	35	0	0	0	0
	point271	271	420	40	24	40	4	35	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	420	40	24	40	4	35	0	0	0	0
	point269	269										
Barton WB	point280	280	396	40	12	40	12	35	0	0	0	0
	point279	279	396	40	12	40	12	35	0	0	0	0
	point278	278	396	40	12	40	12	35	0	0	0	0
	point277	277	396	40	12	40	12	35	0	0	0	0
	point438	438	396	40	12	40	12	35	0	0	0	0
	point289	289	396	40	12	40	12	35	0	0	0	0
	point288	288	396	40	12	40	12	35	0	0	0	0
	point287	287	396	40	12	40	12	35	0	0	0	0
	point286	286	396	40	12	40	12	35	0	0	0	0
	point285	285	396	40	12	40	12	35	0	0	0	0
	point284	284	396	40	12	40	12	35	0	0	0	0
	point412	412	396	40	12	40	12	35	0	0	0	0
	point413	413	396	40	12	40	12	35	0	0	0	0
	point283	283	396	40	12	40	12	35	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point462	462	0	0	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	224	61	24	51	12	52	0	0	0	0
	point239	239	224	61	24	51	12	52	0	0	0	0
	point238	238	224	61	24	51	12	52	0	0	0	0
	point237	237	224	61	24	51	12	52	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point236	236	224	61	24	51	12	52	0	0	0	0
	point235	235	224	61	24	51	12	52	0	0	0	0
	point234	234	224	61	24	51	12	52	0	0	0	0
	point233	233	224	61	24	51	12	52	0	0	0	0
	point232	232	224	61	24	51	12	52	0	0	0	0
	point231	231	224	61	24	51	12	52	0	0	0	0
	point450	450	224	61	24	51	12	52	0	0	0	0
	point451	451	224	61	24	51	12	52	0	0	0	0
	point452	452	224	61	24	51	12	52	0	0	0	0
	point453	453	224	61	24	51	12	52	0	0	0	0
	point454	454	224	61	24	51	12	52	0	0	0	0
	point456	456	224	61	24	51	12	52	0	0	0	0
	point7	522	224	61	24	51	12	52	0	0	0	0
	point6	523	224	61	24	51	12	52	0	0	0	0
	point5	524	224	61	24	51	12	52	0	0	0	0
	point4	525	224	61	24	51	12	52	0	0	0	0
	point3	526	224	61	24	51	12	52	0	0	0	0
	point2	527	224	61	24	51	12	52	0	0	0	0
	point1	528										
La Crosse SB	point540	540	0	0	0	0	0	0	0	0	0	0
	point539	539	0	0	0	0	0	0	0	0	0	0
	point538	538	0	0	0	0	0	0	0	0	0	0
	point537	537	0	0	0	0	0	0	0	0	0	0
	point536	536	0	0	0	0	0	0	0	0	0	0
	point535	535										
La Crosse (northern)	point551	551	0	0	0	0	0	0	0	0	0	0
	point547	547	0	0	0	0	0	0	0	0	0	0
	point548	548	0	0	0	0	0	0	0	0	0	0
	point549	549	0	0	0	0	0	0	0	0	0	0
	point550	550										
I-215 NB Lanes 1 & 2	point38	38	2725	61	189	51	107	52	0	0	0	0
	point37	37	2725	61	189	51	107	52	0	0	0	0
	point36	36	2725	61	189	51	107	52	0	0	0	0
	point35	35	2725	61	189	51	107	52	0	0	0	0
	point34	34	2725	61	189	51	107	52	0	0	0	0
	point33	33	2725	61	189	51	107	52	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point32	32	2725	61	189	51	107	52	0	0	0	0
	point31	31	2725	61	189	51	107	52	0	0	0	0
	point30	30	2725	61	189	51	107	52	0	0	0	0
	point29	29	2725	61	189	51	107	52	0	0	0	0
	point28	28	2725	61	189	51	107	52	0	0	0	0
	point27	27	2725	61	189	51	107	52	0	0	0	0
	point26	26	2725	61	189	51	107	52	0	0	0	0
	point25	25	2725	61	189	51	107	52	0	0	0	0
	point534	534	2725	61	189	51	107	52	0	0	0	0
	point23	23	2725	61	189	51	107	52	0	0	0	0
	point22	22	2725	61	189	51	107	52	0	0	0	0
	point21	21	2725	61	189	51	107	52	0	0	0	0
	point533	533	2725	61	189	51	107	52	0	0	0	0
	point20	20	2725	61	189	51	107	52	0	0	0	0
	point19	19	2725	61	189	51	107	52	0	0	0	0
	point18	18	2725	61	189	51	107	52	0	0	0	0
	point17	17	2725	61	189	51	107	52	0	0	0	0
	point16	16	2725	61	189	51	107	52	0	0	0	0
	point15	15	2725	61	189	51	107	52	0	0	0	0
	point14	14	2725	61	189	51	107	52	0	0	0	0
	point13	13	2725	61	189	51	107	52	0	0	0	0
	point12	12	2725	61	189	51	107	52	0	0	0	0
	point11	11	2725	61	189	51	107	52	0	0	0	0
	point10	10	2725	61	189	51	107	52	0	0	0	0
	point9	9	2725	61	189	51	107	52	0	0	0	0
	point8	8	2725	61	189	51	107	52	0	0	0	0
	point7	7	2725	61	189	51	107	52	0	0	0	0
	point6	6	2725	61	189	51	107	52	0	0	0	0
	point5	5	2725	61	189	51	107	52	0	0	0	0
	point4	4	2725	61	189	51	107	52	0	0	0	0
	point3	3	2725	61	189	51	107	52	0	0	0	0
	point2	2	2725	61	189	51	107	52	0	0	0	0
	point1	1										
I-215 SB Lanes 1 & 2	point157	157	2341	61	72	51	96	52	0	0	0	0
	point156	156	2341	61	72	51	96	52	0	0	0	0
	point155	155	2341	61	72	51	96	52	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point154	154	2341	61	72	51	96	52	0	0	0	0
	point153	153	2341	61	72	51	96	52	0	0	0	0
	point152	152	2341	61	72	51	96	52	0	0	0	0
	point151	151	2341	61	72	51	96	52	0	0	0	0
	point150	150	2341	61	72	51	96	52	0	0	0	0
	point149	149	2341	61	72	51	96	52	0	0	0	0
	point148	148	2341	61	72	51	96	52	0	0	0	0
	point147	147	2341	61	72	51	96	52	0	0	0	0
	point146	146	2341	61	72	51	96	52	0	0	0	0
	point145	145	2341	61	72	51	96	52	0	0	0	0
	point144	144	2341	61	72	51	96	52	0	0	0	0
	point532	532	2341	61	72	51	96	52	0	0	0	0
	point142	142	2341	61	72	51	96	52	0	0	0	0
	point141	141	2341	61	72	51	96	52	0	0	0	0
	point140	140	2341	61	72	51	96	52	0	0	0	0
	point139	139	2341	61	72	51	96	52	0	0	0	0
	point138	138	2341	61	72	51	96	52	0	0	0	0
	point531	531	2341	61	72	51	96	52	0	0	0	0
	point136	136	2341	61	72	51	96	52	0	0	0	0
	point135	135	2341	61	72	51	96	52	0	0	0	0
	point134	134	2341	61	72	51	96	52	0	0	0	0
	point133	133	2341	61	72	51	96	52	0	0	0	0
	point132	132	2341	61	72	51	96	52	0	0	0	0
	point131	131	2341	61	72	51	96	52	0	0	0	0
	point130	130	2341	61	72	51	96	52	0	0	0	0
	point129	129	2341	61	72	51	96	52	0	0	0	0
	point128	128	2341	61	72	51	96	52	0	0	0	0
	point127	127	2341	61	72	51	96	52	0	0	0	0
	point126	126	2341	61	72	51	96	52	0	0	0	0
	point125	125	2341	61	72	51	96	52	0	0	0	0
	point124	124	2341	61	72	51	96	52	0	0	0	0
	point123	123	2341	61	72	51	96	52	0	0	0	0
	point122	122	2341	61	72	51	96	52	0	0	0	0
	point121	121	2341	61	72	51	96	52	0	0	0	0
	point120	120										
La Crosse NB	point557	557	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**I-215/Barton Road Interchange**

	point556	556	0	0	0	0	0	0	0	0	0	0
	point555	555	0	0	0	0	0	0	0	0	0	0
	point554	554	0	0	0	0	0	0	0	0	0	0
	point553	553	0	0	0	0	0	0	0	0	0	0
	point552	552										

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration 04

Barrier									Points										
Name	Type	Height		If Wall	If Berm	Run:Rise		Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment			On	Important
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	ft:ft	\$ per Unit Length			X	Y	Z	at Point	Seg Ht	Perturbs	Struct?		
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0		
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					

INPUT: BARRIERS

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Existing Wall 1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0		
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0		
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00					
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0		
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0		
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00					
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0		
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0		
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0		
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0		
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00					
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0		
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00					
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0		
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0		
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00					
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0		
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	97	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	96	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	99	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	98	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	101	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	100	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 7	W	0.00	99.99	0.00				0.00	point103	103	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point102	102	6,768,134.5	1,835,263.8	1,022.00	15.00				
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	105	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	104	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	107	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	106	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	111	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	110	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	113	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	112	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	115	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	114	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point117	117	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point116	116	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point119	119	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point118	118	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point121	121	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point120	120	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	123	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	122	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point125	125	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point124	124	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point127	127	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point126	126	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point129	129	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point128	128	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 31	W	0.00	99.99	0.00			0.00	point131	131	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point130	130	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00			0.00	point133	133	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point132	132	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00			0.00	point135	135	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point134	134	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00			0.00	point137	137	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point136	136	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00			0.00	point139	139	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point138	138	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00			0.00	point141	141	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point140	140	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00			0.00	point143	143	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point142	142	6,765,577.0	1,837,024.2	979.30	15.00					
Existing wall 9	W	0.00	99.99	0.00			0.00	point97	149	6,766,517.5	1,835,485.5	986.00	6.00	0.00	0	0		
								point98	150	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
								point99	151	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
								point100	152	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
								point101	153	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
								point102	154	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	155	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	156	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	157	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	158	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		

INPUT: BARRIERS

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									point119	159	6,767,311.5	1,836,437.0	1,007.20	6.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point252	160	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
								point118	161	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
								point117	162	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
								point116	163	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point253	164	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
								point115	165	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
								point114	166	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
								point113	167	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
								point217	168	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
								point218	169	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
								point219	170	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
								point220	171	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
								point221	172	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
								point245	173	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
								point246	174	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
								point247	175	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
								point248	176	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
								point249	177	6,767,675.5	1,836,811.1	1,011.00	6.00					
Barrier56	W	0.00	99.99	0.00			0.00	point256	178	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
								point250	179	6,767,715.0	1,836,788.8	1,013.50	5.00					
Barrier57	W	0.00	99.99	0.00			0.00	point255	180	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
								point251	181	6,767,816.0	1,836,961.2	1,016.00	5.00					

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Calibration 04

BARRIER DESIGN: INPUT HEIGHTS

Barriers										
Name	Type	Heights along Barrier			Length	If Wall	If Berm	Top	Run:Rise	Cost
		Min	Avg	Max						
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$
Existing Wall 5a	W	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777				0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664				0
Existing Wall 4b	W	12.60	12.60	12.60	698	8794				0
Existing Wall 8	W	5.30	5.30	5.30	768	4070				0
Existing Wall 7	W	5.30	5.30	5.30	253	1341				0
Building Barrier 9	W	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	5.00	5.00	5.00	143	716				0
Existing Wall 3	W	5.00	5.00	5.00	160	801				0
Building Barrier 1	W	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	25.00	25.00	25.00	122	3046				0
Building Barrier 4	W	25.00	25.00	25.00	384	9597				0
Building Barrier 5	W	20.00	20.00	20.00	145	2899				0
Building Barrier 6	W	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	15.00	15.00	15.00	145	2168				0
Building Barrier 20	W	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	15.00	15.00	15.00	430	6443				0
Building Barrier 28	W	15.00	15.00	15.00	60	905				0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.													14 January 2011
Teak Kim													TNM 2.5

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange
RUN: Calibration 04
BARRIER DESIGN: INPUT HEIGHTS

Barriers		Segments			Heights		Length	If Wall		If Berm	Cost	
Name	Type	Name	No.	First Point	Average	Second Point		Area	On Struc?			Important Reflections?
				ft	ft	ft	ft	sq ft			cu yd	\$
Existing Wall 5a	W	point1	1	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	point12	12	6.00	6.00	6.00	175	1053				0
		point3	3	6.00	6.00	6.00	175	1048				0
		point4	4	6.00	6.00	6.00	175	1051				0
		point5	5	6.00	6.00	6.00	35	211				0
		point6	6	6.00	6.00	6.00	76	458				0
		point7	7	6.00	6.00	6.00	21	124				0
		point8	8	6.00	6.00	6.00	187	1124				0
		point9	9	6.00	6.00	6.00	66	397				0
		point10	10	6.00	6.00	6.00	52	312				0
		Existing Wall 4a	W	point13	13	8.00	8.00	8.00	48	385		
point14	14			8.00	8.00	8.00	6	49				0
point15	15			8.00	8.00	8.00	154	1230				0
Existing Wall 4b	W	point20	20	12.60	12.60	12.60	164	2068				0
		point17	17	12.60	12.60	12.60	236	2967				0
		point18	18	12.60	12.60	12.60	298	3759				0
Existing Wall 8	W	point21	21	5.30	5.30	5.30	115	610				0
		point22	22	5.30	5.30	5.30	128	676				0
		point23	23	5.30	5.30	5.30	218	1153				0
		point24	24	5.30	5.30	5.30	138	730				0
		point25	25	5.30	5.30	5.30	30	161				0
		point26	26	5.30	5.30	5.30	5	27				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point27	27	5.30	5.30	5.30	81	427				0
		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 9	W	point44	44	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	point46	46	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	point48	48	5.00	5.00	5.00	78	388				0
		point49	49	5.00	5.00	5.00	65	327				0
Existing Wall 3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 28	W	point97	97	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	point99	99	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	point101	101	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	point103	103	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	point105	105	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	point107	107	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	point111	111	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	point113	113	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	115	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	point117	117	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	point119	119	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	point121	121	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	point123	123	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	point125	125	15.00	15.00	15.00	45	679				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 26	W	point127	127	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	point129	129	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	point131	131	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	point133	133	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	point135	135	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	point137	137	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	point139	139	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	point141	141	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	point143	143	15.00	15.00	15.00	46	687				0
Existing wall 9	W	point97	149	6.00	6.00	6.00	59	351				0
		point98	150	6.00	6.00	6.00	129	771				0
		point99	151	6.00	6.00	6.00	109	654				0
		point100	152	6.00	6.00	6.00	120	720				0
		point101	153	6.00	6.00	6.00	115	687				0
Building Barrier 12	W	point126	155	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	point121	157	6.00	6.00	6.00	54	321				0
		point120	158	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	160	7.00	7.00	7.00	29	201				0
		point118	161	7.00	7.00	7.00	72	507				0
		point117	162	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	164	6.00	6.00	6.00	72	430				0
		point115	165	6.00	6.00	6.00	10	60				0
		point114	166	6.00	6.00	6.00	81	485				0
		point113	167	6.00	6.00	6.00	3	20				0
		point217	168	6.00	6.00	6.00	36	214				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point218	169	6.00	6.00	6.00	9	51				0
		point219	170	6.00	6.00	6.00	27	164				0
		point220	171	6.00	6.00	6.00	3	20				0
		point221	172	6.00	6.00	6.00	8	49				0
		point245	173	6.00	6.00	6.00	81	483				0
		point246	174	6.00	6.00	6.00	124	743				0
		point247	175	6.00	6.00	6.00	44	262				0
		point248	176	6.00	6.00	6.00	72	435				0
Barrier56	W	point256	178	5.00	5.00	5.00	45	227				0
Barrier57	W	point255	180	5.00	5.00	5.00	127	633				0

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.				14 January 2011		
Teak Kim				TNM 2.5		
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:		I-215/Barton Road Interchange				
RUN:		Calibration 04				
Building Row			Points			
Name	Average	Building	No.	Coordinates (ground)		
	Height	Percent		X	Y	Z
	ft	%		ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building11	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

INPUT: RECEIVERS

I-215/Barton Road Interchange

LSA Associates, Inc.							14 January 2011				
Teak Kim							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		I-215/Barton Road Interchange									
RUN:		Calibration 04									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-4	1	1	6,767,040.0	1,836,048.1	1,000.00	5.00	0.00	66	12.0	5.0	
R-22	2	1	6,766,883.0	1,835,469.6	992.00	5.00	0.00	66	12.0	5.0	
R-23	3	1	6,766,800.0	1,835,732.4	991.00	5.00	0.00	66	12.0	5.0	
R-24	4	1	6,766,904.0	1,835,862.9	995.00	5.00	0.00	66	12.0	5.0	
R-25	5	1	6,766,949.5	1,835,989.5	998.00	5.00	0.00	66	12.0	5.0	
R-43	6	1	6,767,403.0	1,835,621.4	1,010.00	5.00	0.00	66	12.0	5.0	
R-44	7	1	6,767,441.0	1,835,724.9	1,012.00	5.00	0.00	66	12.0	5.0	
R-45	8	1	6,767,505.0	1,835,755.1	1,012.00	5.00	0.00	66	12.0	5.0	

INPUT: ROADWAYS

I-215/Barton Road Interchange

LSA Associates, Inc. Teak Kim				14 January 2011 TNM 2.5							
INPUT: ROADWAYS				I-215/Barton Road Interchange			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT:				Calibration 04							
RUN:											
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
I-215 NB Lane 3	36.0	point76	76	6,763,402.0	1,832,218.9	915.20				Average	
		point75	75	6,763,588.5	1,832,466.2	915.20				Average	
		point74	74	6,763,739.5	1,832,664.8	915.60				Average	
		point73	73	6,763,892.0	1,832,859.2	916.50				Average	
		point72	72	6,764,051.5	1,833,044.8	917.70				Average	
		point71	71	6,764,219.0	1,833,227.5	919.20				Average	
		point70	70	6,764,399.5	1,833,422.5	925.20				Average	
		point69	69	6,764,540.5	1,833,573.9	932.10				Average	
		point68	68	6,764,691.0	1,833,736.1	940.00				Average	
		point67	67	6,764,858.5	1,833,916.9	949.00				Average	
		point66	66	6,764,998.5	1,834,069.9	955.20				Average	
		point65	65	6,765,162.0	1,834,245.8	959.20				Average	
		point64	64	6,765,331.0	1,834,427.2	960.40				Average	
		point63	63	6,765,512.5	1,834,623.5	961.20				Average	
		point62	62	6,765,686.0	1,834,810.2	961.90				Average	
		point61	61	6,765,876.0	1,835,015.1	962.30				Average	
		point60	60	6,766,035.5	1,835,186.2	962.90				Average	
		point59	59	6,766,204.0	1,835,368.2	963.00				Average	
		point58	58	6,766,388.0	1,835,567.0	968.10				Average	
		point57	57	6,766,556.0	1,835,748.0	976.00				Average	
		point56	56	6,766,728.5	1,835,933.0	985.00				Average	
		point55	55	6,766,867.0	1,836,084.2	992.00				Average	
		point54	54	6,767,030.5	1,836,259.8	999.10				Average	
		point53	53	6,767,211.0	1,836,453.8	1,004.30				Average	
		point52	52	6,767,393.5	1,836,651.6	1,006.70				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average	
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average	
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average	
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average	
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average	
		point46	46	6,768,365.0	1,837,698.0	998.70				Average	
		point45	45	6,768,518.0	1,837,862.1	995.60				Average	
		point44	44	6,768,674.5	1,838,022.8	993.30				Average	
		point43	43	6,768,823.5	1,838,166.2	990.10				Average	
		point42	42	6,768,980.5	1,838,313.8	985.20				Average	
		point41	41	6,769,152.5	1,838,462.6	979.50				Average	
		point40	40	6,769,332.5	1,838,617.5	973.70				Average	
		point39	39	6,769,526.0	1,838,779.8	966.90					
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average	
		point114	114	6,769,306.0	1,838,640.9	973.60				Average	
		point113	113	6,769,128.0	1,838,488.2	979.80				Average	
		point112	112	6,768,955.5	1,838,338.1	985.60				Average	
		point111	111	6,768,799.0	1,838,190.2	990.80				Average	
		point110	110	6,768,650.0	1,838,046.2	993.50				Average	
		point109	109	6,768,494.0	1,837,885.0	996.00				Average	
		point108	108	6,768,337.5	1,837,718.9	998.70				Average	
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average	
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average	
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average	
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average	
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average	
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average	
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average	
		point100	100	6,767,004.0	1,836,280.2	999.10				Average	
		point99	99	6,766,841.5	1,836,104.6	992.10				Average	
		point98	98	6,766,703.0	1,835,954.8	984.90				Average	
		point97	97	6,766,530.0	1,835,768.2	976.10				Average	
		point96	96	6,766,361.5	1,835,587.1	967.90				Average	
		point95	95	6,766,157.5	1,835,368.2	963.10				Average	
		point94	94	6,766,012.5	1,835,211.8	963.00				Average	
		point93	93	6,765,850.5	1,835,035.8	962.30				Average	
		point92	92	6,765,661.0	1,834,831.2	961.80				Average	
		point91	91	6,765,487.5	1,834,644.8	961.20				Average	
		point90	90	6,765,305.5	1,834,449.4	960.40				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00					Average
		point256	256	6,764,014.5	1,835,366.4	953.50					Average
		point255	255	6,764,147.0	1,835,365.4	953.00					Average
		point254	254	6,764,493.5	1,835,375.1	965.50					Average
		point253	253	6,764,793.0	1,835,380.8	979.70					Average
		point252	252	6,765,094.5	1,835,380.8	972.00					Average
		point251	251	6,765,404.5	1,835,380.8	973.00					Average
		point250	250	6,765,697.0	1,835,379.8	977.30					Average
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50					Average
		point421	421	6,766,581.5	1,835,376.4	986.50					Average
		point259	259	6,766,754.0	1,835,377.4	989.00					Average
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100		Average
		point292	292	6,766,902.5	1,835,415.9	992.60					Average
		point291	291	6,766,755.5	1,835,415.0	989.20					Average
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00					Average
		point432	432	6,766,404.5	1,835,412.9	984.70					Average
		point303	303	6,766,337.5	1,835,409.2	985.00					Average
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50					Average
		point312	312	6,765,393.5	1,835,410.8	972.50					Average
		point311	311	6,765,428.5	1,835,587.1	971.00					Average
		point310	310	6,765,470.0	1,835,755.1	970.50					Average
		point309	309	6,765,519.5	1,836,010.5	972.00					Average
		point308	308	6,765,571.5	1,836,274.8	974.00					Average
		point307	307	6,765,596.5	1,836,444.6	976.00					Average
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100		Average
		point403	403	6,765,707.0	1,837,002.5	978.70					Average
		point404	404	6,765,713.5	1,837,015.4	978.00					Average
		point319	319	6,765,725.5	1,837,037.5	977.40					Average
		point318	318	6,765,777.5	1,837,150.5	969.50					Average
		point317	317	6,765,800.5	1,837,183.2	969.50					Average
		point316	316	6,765,829.5	1,837,210.5	969.50					Average
		point315	315	6,765,853.0	1,837,247.2	969.50					Average
		point314	314	6,765,892.0	1,837,349.2	969.50					Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

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		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

INPUT: ROADWAYS

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Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40					
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

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		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse SB	12.0	point563	535	6,765,862.0	1,835,377.6	979.00				Average
		point562	536	6,765,848.0	1,835,263.8	975.50				Average
		point561	537	6,765,777.5	1,835,155.6	972.50				Average
		point560	538	6,765,702.5	1,835,060.4	970.50				Average
		point559	539	6,765,620.5	1,834,962.1	969.00				Average
		point565	540	6,765,452.0	1,834,758.2	964.50				
La Crosse Avenue (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average

INPUT: ROADWAYS

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		point550	550	6,765,886.0	1,835,408.9	981.00					
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50					Average
		point37	37	6,763,604.0	1,832,456.6	914.50					Average
		point36	36	6,763,754.5	1,832,654.2	915.10					Average
		point35	35	6,763,905.5	1,832,849.8	916.10					Average
		point34	34	6,764,066.0	1,833,033.0	917.00					Average
		point33	33	6,764,233.5	1,833,215.5	918.50					Average
		point32	32	6,764,413.0	1,833,410.2	925.00					Average
		point31	31	6,764,553.5	1,833,563.0	932.00					Average
		point30	30	6,764,706.0	1,833,725.1	940.00					Average
		point29	29	6,764,871.5	1,833,906.1	949.00					Average
		point28	28	6,765,012.0	1,834,058.8	955.00					Average
		point27	27	6,765,176.5	1,834,233.2	958.90					Average
		point26	26	6,765,345.5	1,834,416.4	960.20					Average
		point25	25	6,765,527.5	1,834,612.0	960.80					Average
		point534	534	6,765,700.5	1,834,797.2	961.60					Average
		point23	23	6,765,891.0	1,835,003.8	962.10					Average
		point22	22	6,766,048.5	1,835,174.6	962.90					Average
		point21	21	6,766,219.5	1,835,357.8	963.20					Average
		point533	533	6,766,311.0	1,835,456.6	965.60					Average
		point20	20	6,766,402.5	1,835,555.5	968.00					Average
		point19	19	6,766,570.5	1,835,735.8	976.00					Average
		point18	18	6,766,741.5	1,835,920.5	985.00					Average
		point17	17	6,766,882.5	1,836,070.9	992.00					Average
		point16	16	6,767,044.5	1,836,249.0	999.00					Average
		point15	15	6,767,225.5	1,836,441.8	1,004.00					Average
		point14	14	6,767,407.5	1,836,639.4	1,006.20					Average
		point13	13	6,767,568.5	1,836,812.4	1,006.40					Average
		point12	12	6,767,719.0	1,836,975.2	1,007.10					Average
		point11	11	6,767,875.5	1,837,142.4	1,007.00					Average
		point10	10	6,768,047.0	1,837,328.5	1,004.90					Average
		point9	9	6,768,198.0	1,837,490.8	1,002.00					Average
		point8	8	6,768,380.0	1,837,686.9	998.40					Average
		point7	7	6,768,531.0	1,837,849.8	995.40					Average
		point6	6	6,768,688.0	1,838,010.4	993.00					Average
		point5	5	6,768,836.5	1,838,152.2	990.00					Average
		point4	4	6,768,994.0	1,838,300.6	985.00					Average
		point3	3	6,769,165.5	1,838,448.9	979.50					Average
		point2	2	6,769,345.5	1,838,603.8	973.60					Average

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		point1	1	6,769,539.0	1,838,765.9	966.40					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50					Average
		point156	156	6,769,292.0	1,838,653.6	973.10					Average
		point155	155	6,769,114.0	1,838,500.6	979.80					Average
		point154	154	6,768,941.5	1,838,350.8	985.80					Average
		point153	153	6,768,787.0	1,838,201.9	991.00					Average
		point152	152	6,768,637.5	1,838,059.1	994.00					Average
		point151	151	6,768,481.5	1,837,899.8	996.50					Average
		point150	150	6,768,324.5	1,837,731.5	998.70					Average
		point149	149	6,768,146.5	1,837,539.2	1,001.90					Average
		point148	148	6,767,994.0	1,837,374.8	1,004.80					Average
		point147	147	6,767,820.5	1,837,188.2	1,006.90					Average
		point146	146	6,767,668.0	1,837,022.6	1,007.10					Average
		point145	145	6,767,517.0	1,836,860.6	1,006.70					Average
		point144	144	6,767,356.0	1,836,686.2	1,006.20					Average
		point532	532	6,767,172.0	1,836,487.9	1,004.00					Average
		point142	142	6,766,991.0	1,836,292.2	998.90					Average
		point141	141	6,766,828.5	1,836,116.8	992.00					Average
		point140	140	6,766,689.5	1,835,966.8	984.50					Average
		point139	139	6,766,517.0	1,835,781.0	976.00					Average
		point138	138	6,766,348.0	1,835,599.4	967.80					Average
		point531	531	6,766,133.0	1,835,368.1	963.30					Average
		point136	136	6,765,999.5	1,835,223.5	962.80					Average
		point135	135	6,765,837.0	1,835,048.1	962.20					Average
		point134	134	6,765,647.5	1,834,843.9	961.70					Average
		point133	133	6,765,474.0	1,834,657.2	960.90					Average
		point132	132	6,765,292.5	1,834,461.8	960.40					Average
		point131	131	6,765,124.5	1,834,280.2	958.70					Average
		point130	130	6,764,960.5	1,834,102.9	954.80					Average
		point129	129	6,764,819.5	1,833,952.1	948.40					Average
		point128	128	6,764,650.5	1,833,769.1	939.80					Average
		point127	127	6,764,500.5	1,833,607.5	932.00					Average
		point126	126	6,764,368.5	1,833,463.8	925.50					Average
		point125	125	6,764,179.0	1,833,259.9	919.50					Average
		point124	124	6,764,013.0	1,833,077.6	918.20					Average
		point123	123	6,763,850.5	1,832,887.6	917.10					Average
		point122	122	6,763,711.5	1,832,715.1	916.30					Average
		point121	121	6,763,546.0	1,832,498.2	915.40					Average
		point120	120	6,763,362.0	1,832,252.2	915.40					

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse NB	12.0	point557	552	6,765,466.0	1,834,747.4	966.00				Average	
		point556	553	6,765,633.5	1,834,955.2	969.00				Average	
		point555	554	6,765,713.0	1,835,053.5	971.00				Average	
		point554	555	6,765,794.0	1,835,144.2	973.00				Average	
		point553	556	6,765,864.5	1,835,255.5	976.00				Average	
		point552	557	6,765,905.5	1,835,377.1	979.00					

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

LSA Associates, Inc.								17 January 2011				
Teak Kim								TNM 2.5				
								Calculated with TNM 2.5				
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:			I-215/Barton Road Interchange									
RUN:			Calibration 04									
BARRIER DESIGN:			INPUT HEIGHTS					Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.				
ATMOSPHERICS:			68 deg F, 50% RH									

Receiver													
Name	No.	#DUs	Existing LAeq1h	No Barrier		Increase over existing			With Barrier				
				LAeq1h Calculated	Crit'n	Calculated	Crit'n	Type Impact	Calculated LAeq1h	Noise Reduction		Calculated minus Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
M-4	1	1	0.0	75.2	66	75.2	12	Snd Lvl	75.2	0.0	5	-5.0	
R-22	2	1	0.0	61.3	66	61.3	12	----	61.3	0.0	5	-5.0	
R-23	3	1	0.0	71.9	66	71.9	12	Snd Lvl	71.9	0.0	5	-5.0	
R-24	4	1	0.0	73.5	66	73.5	12	Snd Lvl	73.5	0.0	5	-5.0	
R-25	5	1	0.0	77.2	66	77.2	12	Snd Lvl	77.2	0.0	5	-5.0	
R-43	6	1	0.0	59.5	66	59.5	12	----	59.5	0.0	5	-5.0	
R-44	7	1	0.0	60.3	66	60.3	12	----	60.3	0.0	5	-5.0	
R-45	8	1	0.0	59.3	66	59.3	12	----	59.3	0.0	5	-5.0	
Dwelling Units		# DUs	Noise Reduction										
			Min	Avg	Max								
			dB	dB	dB								
All Selected		8	0.0	0.0	0.0								
All Impacted		4	0.0	0.0	0.0								
All that meet NR Goal		0	0.0	0.0	0.0								

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011		
Teak Kim		TNM 2.5		
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:		I-215/Barton Road Interchange		
RUN:		Calibration 04		
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,764,381.5	1,833,279.8	942.00
	2	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,016.5	1,833,967.0	943.00
	6	6,765,092.0	1,834,055.4	945.00
	7	6,765,258.0	1,834,237.6	954.00
	8	6,765,400.0	1,834,395.8	960.00
	9	6,765,541.0	1,834,544.6	964.00
	10	6,765,738.0	1,834,749.4	972.00
Terrain Line6	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	16	6,766,314.0	1,835,368.2	984.00
Terrain Line7	22	6,766,507.0	1,835,493.1	986.00
	23	6,766,573.5	1,835,591.8	987.00
	24	6,766,630.0	1,835,668.0	987.00
	25	6,766,679.5	1,835,723.8	989.00
	26	6,766,758.0	1,835,818.9	990.00
	27	6,766,863.0	1,835,948.1	994.00
	28	6,766,975.0	1,836,081.6	998.00
	29	6,767,078.5	1,836,200.6	1,001.00
	30	6,767,228.0	1,836,360.2	1,004.00
	31	6,767,393.0	1,836,514.6	1,010.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00
	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line15	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line14	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line11	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
	99	6,766,171.0	1,835,508.8	985.00
	100	6,766,103.5	1,835,420.1	982.00
Terrain Line8	102	6,767,393.0	1,836,514.6	1,010.00
	32	6,767,432.0	1,836,546.8	1,010.00
Terrain Line9	106	6,767,811.0	1,836,956.8	1,015.00
	37	6,767,911.0	1,837,066.2	1,017.00
	38	6,767,981.5	1,837,102.2	1,020.00
Terrain Line5	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,206.5	1,835,144.8	975.00
Terrain Line13	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,149.0	1,836,589.2	992.00
Terrain Line12	125	6,765,595.0	1,835,437.0	980.00
	126	6,765,566.0	1,835,436.2	979.30
	127	6,765,445.5	1,835,448.2	976.50

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011										
Teak Kim		TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:		I-215/Barton Road Interchange										
RUN:		Calibration 04										
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3	point76	76	1684	64	69	52	52	56	0	0	0	0
	point75	75	1684	64	69	52	52	56	0	0	0	0
	point74	74	1684	64	69	52	52	56	0	0	0	0
	point73	73	1684	64	69	52	52	56	0	0	0	0
	point72	72	1684	64	69	52	52	56	0	0	0	0
	point71	71	1684	64	69	52	52	56	0	0	0	0
	point70	70	1684	64	69	52	52	56	0	0	0	0
	point69	69	1684	64	69	52	52	56	0	0	0	0
	point68	68	1684	64	69	52	52	56	0	0	0	0
	point67	67	1684	64	69	52	52	56	0	0	0	0
	point66	66	1684	64	69	52	52	56	0	0	0	0
	point65	65	1684	64	69	52	52	56	0	0	0	0
	point64	64	1684	64	69	52	52	56	0	0	0	0
	point63	63	1684	64	69	52	52	56	0	0	0	0
	point62	62	1684	64	69	52	52	56	0	0	0	0
	point61	61	1684	64	69	52	52	56	0	0	0	0
	point60	60	1684	64	69	52	52	56	0	0	0	0
	point59	59	1684	64	69	52	52	56	0	0	0	0
	point58	58	1684	64	69	52	52	56	0	0	0	0
	point57	57	1684	64	69	52	52	56	0	0	0	0
	point56	56	1684	64	69	52	52	56	0	0	0	0
	point55	55	1684	64	69	52	52	56	0	0	0	0
	point54	54	1684	64	69	52	52	56	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1684	64	69	52	52	56	0	0	0	0
	point52	52	1684	64	69	52	52	56	0	0	0	0
	point51	51	1684	64	69	52	52	56	0	0	0	0
	point50	50	1684	64	69	52	52	56	0	0	0	0
	point49	49	1684	64	69	52	52	56	0	0	0	0
	point48	48	1684	64	69	52	52	56	0	0	0	0
	point47	47	1684	64	69	52	52	56	0	0	0	0
	point46	46	1684	64	69	52	52	56	0	0	0	0
	point45	45	1684	64	69	52	52	56	0	0	0	0
	point44	44	1684	64	69	52	52	56	0	0	0	0
	point43	43	1684	64	69	52	52	56	0	0	0	0
	point42	42	1684	64	69	52	52	56	0	0	0	0
	point41	41	1684	64	69	52	52	56	0	0	0	0
	point40	40	1684	64	69	52	52	56	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1188	64	59	52	79	56	0	0	0	0
	point114	114	1188	64	59	52	79	56	0	0	0	0
	point113	113	1188	64	59	52	79	56	0	0	0	0
	point112	112	1188	64	59	52	79	56	0	0	0	0
	point111	111	1188	64	59	52	79	56	0	0	0	0
	point110	110	1188	64	59	52	79	56	0	0	0	0
	point109	109	1188	64	59	52	79	56	0	0	0	0
	point108	108	1188	64	59	52	79	56	0	0	0	0
	point107	107	1188	64	59	52	79	56	0	0	0	0
	point106	106	1188	64	59	52	79	56	0	0	0	0
	point105	105	1188	64	59	52	79	56	0	0	0	0
	point104	104	1188	64	59	52	79	56	0	0	0	0
	point103	103	1188	64	59	52	79	56	0	0	0	0
	point102	102	1188	64	59	52	79	56	0	0	0	0
	point101	101	1188	64	59	52	79	56	0	0	0	0
	point100	100	1188	64	59	52	79	56	0	0	0	0
	point99	99	1188	64	59	52	79	56	0	0	0	0
	point98	98	1188	64	59	52	79	56	0	0	0	0
	point97	97	1188	64	59	52	79	56	0	0	0	0
	point96	96	1188	64	59	52	79	56	0	0	0	0
	point95	95	1188	64	59	52	79	56	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1188	64	59	52	79	56	0	0	0	0
	point93	93	1188	64	59	52	79	56	0	0	0	0
	point92	92	1188	64	59	52	79	56	0	0	0	0
	point91	91	1188	64	59	52	79	56	0	0	0	0
	point90	90	1188	64	59	52	79	56	0	0	0	0
	point89	89	1188	64	59	52	79	56	0	0	0	0
	point88	88	1188	64	59	52	79	56	0	0	0	0
	point87	87	1188	64	59	52	79	56	0	0	0	0
	point86	86	1188	64	59	52	79	56	0	0	0	0
	point85	85	1188	64	59	52	79	56	0	0	0	0
	point84	84	1188	64	59	52	79	56	0	0	0	0
	point83	83	1188	64	59	52	79	56	0	0	0	0
	point82	82	1188	64	59	52	79	56	0	0	0	0
	point81	81	1188	64	59	52	79	56	0	0	0	0
	point80	80	1188	64	59	52	79	56	0	0	0	0
	point79	79	1188	64	59	52	79	56	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0
	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point435	435	0	0	0	0	0	0	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	0	0	0	0	0	0	0	0	0	0
	point223	223	0	0	0	0	0	0	0	0	0	0
	point224	224	0	0	0	0	0	0	0	0	0	0
	point225	225	0	0	0	0	0	0	0	0	0	0
	point226	226	0	0	0	0	0	0	0	0	0	0
	point227	227	0	0	0	0	0	0	0	0	0	0
	point228	228	0	0	0	0	0	0	0	0	0	0
	point420	420	0	0	0	0	0	0	0	0	0	0
	point229	229										
Barton EB	point257	257	0	0	0	0	0	0	0	0	0	0
	point256	256	0	0	0	0	0	0	0	0	0	0
	point255	255	0	0	0	0	0	0	0	0	0	0
	point254	254	0	0	0	0	0	0	0	0	0	0
	point253	253	0	0	0	0	0	0	0	0	0	0
	point252	252	0	0	0	0	0	0	0	0	0	0
	point251	251	0	0	0	0	0	0	0	0	0	0
	point250	250	0	0	0	0	0	0	0	0	0	0
	point436	436										
Barton EB	point260	260	0	0	0	0	0	0	0	0	0	0
	point421	421	0	0	0	0	0	0	0	0	0	0
	point259	259	0	0	0	0	0	0	0	0	0	0
	point258	258										
Barton WB	point397	397	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point291	291	0	0	0	0	0	0	0	0	0	0
	point290	290										
Barton WB	point304	304	0	0	0	0	0	0	0	0	0	0
	point432	432	0	0	0	0	0	0	0	0	0	0
	point303	303	0	0	0	0	0	0	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	0	0	0	0	0	0	0	0	0	0
	point312	312	0	0	0	0	0	0	0	0	0	0
	point311	311	0	0	0	0	0	0	0	0	0	0
	point310	310	0	0	0	0	0	0	0	0	0	0
	point309	309	0	0	0	0	0	0	0	0	0	0
	point308	308	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	0	0	0	0	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	0	0	0	0	0	0	0	0	0	0
	point403	403	0	0	0	0	0	0	0	0	0	0
	point404	404	0	0	0	0	0	0	0	0	0	0
	point319	319	0	0	0	0	0	0	0	0	0	0
	point318	318	0	0	0	0	0	0	0	0	0	0
	point317	317	0	0	0	0	0	0	0	0	0	0
	point316	316	0	0	0	0	0	0	0	0	0	0
	point315	315	0	0	0	0	0	0	0	0	0	0
	point314	314	0	0	0	0	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	0	0	0	0	0	0	0	0	0	0
	point406	406	0	0	0	0	0	0	0	0	0	0
	point407	407	0	0	0	0	0	0	0	0	0	0
	point326	326	0	0	0	0	0	0	0	0	0	0
	point325	325	0	0	0	0	0	0	0	0	0	0
	point324	324	0	0	0	0	0	0	0	0	0	0
	point323	323	0	0	0	0	0	0	0	0	0	0
	point322	322	0	0	0	0	0	0	0	0	0	0
	point321	321	0	0	0	0	0	0	0	0	0	0
	point425	425	0	0	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	0	0	0	0	0	0	0	0	0	0
	point332	332	0	0	0	0	0	0	0	0	0	0
	point331	331	0	0	0	0	0	0	0	0	0	0
	point330	330	0	0	0	0	0	0	0	0	0	0
	point329	329	0	0	0	0	0	0	0	0	0	0
	point328	328	0	0	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB	point426	426	0	0	0	0	0	0	0	0	0	0
	point363	363	0	0	0	0	0	0	0	0	0	0
	point364	364	0	0	0	0	0	0	0	0	0	0
	point365	365	0	0	0	0	0	0	0	0	0	0
	point366	366	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	0	0	0	0	0	0	0	0	0	0
	point368	368	0	0	0	0	0	0	0	0	0	0
	point430	430	0	0	0	0	0	0	0	0	0	0
	point369	369										
Michigan NB	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB	point431	431	0	0	0	0	0	0	0	0	0	0
	point374	374	0	0	0	0	0	0	0	0	0	0
	point375	375	0	0	0	0	0	0	0	0	0	0
	point376	376	0	0	0	0	0	0	0	0	0	0
	point377	377	0	0	0	0	0	0	0	0	0	0
	point378	378	0	0	0	0	0	0	0	0	0	0
	point379	379	0	0	0	0	0	0	0	0	0	0
	point380	380										
Michigan SB	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB Ln	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point441	441	0	0	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	0	0	0	0	0	0	0	0	0	0
	point249	249	0	0	0	0	0	0	0	0	0	0
	point248	248	0	0	0	0	0	0	0	0	0	0
	point247	247										
Barton WB	point445	445	0	0	0	0	0	0	0	0	0	0
	point434	434	0	0	0	0	0	0	0	0	0	0
	point301	301	0	0	0	0	0	0	0	0	0	0
	point300	300	0	0	0	0	0	0	0	0	0	0
	point422	422	0	0	0	0	0	0	0	0	0	0
	point423	423	0	0	0	0	0	0	0	0	0	0
	point299	299	0	0	0	0	0	0	0	0	0	0
	point298	298	0	0	0	0	0	0	0	0	0	0
	point297	297	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point294	294										
Barton EB	point398	398	0	0	0	0	0	0	0	0	0	0
	point428	428	0	0	0	0	0	0	0	0	0	0
	point429	429	0	0	0	0	0	0	0	0	0	0
	point268	268	0	0	0	0	0	0	0	0	0	0
	point267	267	0	0	0	0	0	0	0	0	0	0
	point266	266	0	0	0	0	0	0	0	0	0	0
	point265	265	0	0	0	0	0	0	0	0	0	0
	point264	264	0	0	0	0	0	0	0	0	0	0
	point263	263	0	0	0	0	0	0	0	0	0	0
	point262	262	0	0	0	0	0	0	0	0	0	0
	point439	439	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	0	0	0	0	0	0	0	0	0	0
	point269	269										
Barton WB	point280	280	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point438	438	0	0	0	0	0	0	0	0	0	0
	point289	289	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point286	286	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point412	412	0	0	0	0	0	0	0	0	0	0
	point413	413	0	0	0	0	0	0	0	0	0	0
	point283	283	0	0	0	0	0	0	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point462	462	0	0	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	292	64	32	52	8	56	0	0	0	0
	point239	239	292	64	32	52	8	56	0	0	0	0
	point238	238	292	64	32	52	8	56	0	0	0	0
	point237	237	292	64	32	52	8	56	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point236	236	292	64	32	52	8	56	0	0	0	0
	point235	235	292	64	32	52	8	56	0	0	0	0
	point234	234	292	64	32	52	8	56	0	0	0	0
	point233	233	292	64	32	52	8	56	0	0	0	0
	point232	232	292	64	32	52	8	56	0	0	0	0
	point231	231	292	64	32	52	8	56	0	0	0	0
	point450	450	292	64	32	52	8	56	0	0	0	0
	point451	451	292	64	32	52	8	56	0	0	0	0
	point452	452	292	64	32	52	8	56	0	0	0	0
	point453	453	292	64	32	52	8	56	0	0	0	0
	point454	454	292	64	32	52	8	56	0	0	0	0
	point456	456	292	64	32	52	8	56	0	0	0	0
	point7	522	292	64	32	52	8	56	0	0	0	0
	point6	523	292	64	32	52	8	56	0	0	0	0
	point5	524	292	64	32	52	8	56	0	0	0	0
	point4	525	292	64	32	52	8	56	0	0	0	0
	point3	526	292	64	32	52	8	56	0	0	0	0
	point2	527	292	64	32	52	8	56	0	0	0	0
	point1	528										
La Crosse SB	point563	535	0	0	0	0	0	0	0	0	0	0
	point562	536	0	0	0	0	0	0	0	0	0	0
	point561	537	0	0	0	0	0	0	0	0	0	0
	point560	538	0	0	0	0	0	0	0	0	0	0
	point559	539	0	0	0	0	0	0	0	0	0	0
	point565	540										
La Crosse Avenue (northern)	point551	551	0	0	0	0	0	0	0	0	0	0
	point547	547	0	0	0	0	0	0	0	0	0	0
	point548	548	0	0	0	0	0	0	0	0	0	0
	point549	549	0	0	0	0	0	0	0	0	0	0
	point550	550										
I-215 NB Lanes 1 & 2	point38	38	3368	64	139	52	104	56	0	0	0	0
	point37	37	3368	64	139	52	104	56	0	0	0	0
	point36	36	3368	64	139	52	104	56	0	0	0	0
	point35	35	3368	64	139	52	104	56	0	0	0	0
	point34	34	3368	64	139	52	104	56	0	0	0	0
	point33	33	3368	64	139	52	104	56	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point32	32	3368	64	139	52	104	56	0	0	0	0
	point31	31	3368	64	139	52	104	56	0	0	0	0
	point30	30	3368	64	139	52	104	56	0	0	0	0
	point29	29	3368	64	139	52	104	56	0	0	0	0
	point28	28	3368	64	139	52	104	56	0	0	0	0
	point27	27	3368	64	139	52	104	56	0	0	0	0
	point26	26	3368	64	139	52	104	56	0	0	0	0
	point25	25	3368	64	139	52	104	56	0	0	0	0
	point534	534	3368	64	139	52	104	56	0	0	0	0
	point23	23	3368	64	139	52	104	56	0	0	0	0
	point22	22	3368	64	139	52	104	56	0	0	0	0
	point21	21	3368	64	139	52	104	56	0	0	0	0
	point533	533	3368	64	139	52	104	56	0	0	0	0
	point20	20	3368	64	139	52	104	56	0	0	0	0
	point19	19	3368	64	139	52	104	56	0	0	0	0
	point18	18	3368	64	139	52	104	56	0	0	0	0
	point17	17	3368	64	139	52	104	56	0	0	0	0
	point16	16	3368	64	139	52	104	56	0	0	0	0
	point15	15	3368	64	139	52	104	56	0	0	0	0
	point14	14	3368	64	139	52	104	56	0	0	0	0
	point13	13	3368	64	139	52	104	56	0	0	0	0
	point12	12	3368	64	139	52	104	56	0	0	0	0
	point11	11	3368	64	139	52	104	56	0	0	0	0
	point10	10	3368	64	139	52	104	56	0	0	0	0
	point9	9	3368	64	139	52	104	56	0	0	0	0
	point8	8	3368	64	139	52	104	56	0	0	0	0
	point7	7	3368	64	139	52	104	56	0	0	0	0
	point6	6	3368	64	139	52	104	56	0	0	0	0
	point5	5	3368	64	139	52	104	56	0	0	0	0
	point4	4	3368	64	139	52	104	56	0	0	0	0
	point3	3	3368	64	139	52	104	56	0	0	0	0
	point2	2	3368	64	139	52	104	56	0	0	0	0
	point1	1										
I-215 SB Lanes 1 & 2	point157	157	2376	64	117	52	157	56	0	0	0	0
	point156	156	2376	64	117	52	157	56	0	0	0	0
	point155	155	2376	64	117	52	157	56	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point154	154	2376	64	117	52	157	56	0	0	0	0
	point153	153	2376	64	117	52	157	56	0	0	0	0
	point152	152	2376	64	117	52	157	56	0	0	0	0
	point151	151	2376	64	117	52	157	56	0	0	0	0
	point150	150	2376	64	117	52	157	56	0	0	0	0
	point149	149	2376	64	117	52	157	56	0	0	0	0
	point148	148	2376	64	117	52	157	56	0	0	0	0
	point147	147	2376	64	117	52	157	56	0	0	0	0
	point146	146	2376	64	117	52	157	56	0	0	0	0
	point145	145	2376	64	117	52	157	56	0	0	0	0
	point144	144	2376	64	117	52	157	56	0	0	0	0
	point532	532	2376	64	117	52	157	56	0	0	0	0
	point142	142	2376	64	117	52	157	56	0	0	0	0
	point141	141	2376	64	117	52	157	56	0	0	0	0
	point140	140	2376	64	117	52	157	56	0	0	0	0
	point139	139	2376	64	117	52	157	56	0	0	0	0
	point138	138	2376	64	117	52	157	56	0	0	0	0
	point531	531	2376	64	117	52	157	56	0	0	0	0
	point136	136	2376	64	117	52	157	56	0	0	0	0
	point135	135	2376	64	117	52	157	56	0	0	0	0
	point134	134	2376	64	117	52	157	56	0	0	0	0
	point133	133	2376	64	117	52	157	56	0	0	0	0
	point132	132	2376	64	117	52	157	56	0	0	0	0
	point131	131	2376	64	117	52	157	56	0	0	0	0
	point130	130	2376	64	117	52	157	56	0	0	0	0
	point129	129	2376	64	117	52	157	56	0	0	0	0
	point128	128	2376	64	117	52	157	56	0	0	0	0
	point127	127	2376	64	117	52	157	56	0	0	0	0
	point126	126	2376	64	117	52	157	56	0	0	0	0
	point125	125	2376	64	117	52	157	56	0	0	0	0
	point124	124	2376	64	117	52	157	56	0	0	0	0
	point123	123	2376	64	117	52	157	56	0	0	0	0
	point122	122	2376	64	117	52	157	56	0	0	0	0
	point121	121	2376	64	117	52	157	56	0	0	0	0
	point120	120										
La Crosse NB	point557	552	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**I-215/Barton Road Interchange**

	point556	553	0	0	0	0	0	0	0	0	0	0
	point555	554	0	0	0	0	0	0	0	0	0	0
	point554	555	0	0	0	0	0	0	0	0	0	0
	point553	556	0	0	0	0	0	0	0	0	0	0
	point552	557										

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration 05

Barrier									Points										
Name	Type	Height		If Wall	If Berm	Run:Rise		Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment			On	Important
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	ft:ft	\$ per Unit Length			X	Y	Z	at Point	Seg Ht	Perturbs	Struct?		
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0		
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					

INPUT: BARRIERS

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Existing Wall 1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0		
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0		
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00					
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0		
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0		
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00					
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0		
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0		
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0		
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0		
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00					
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0		
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00					
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0		
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0		
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00					
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0		
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	97	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	96	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	99	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	98	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	101	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	100	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 7	W	0.00	99.99	0.00				0.00	point103	103	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		

INPUT: BARRIERS

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									point102	102	6,768,134.5	1,835,263.8	1,022.00	15.00				
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	105	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	104	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	107	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	106	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	111	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	110	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	113	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	112	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	115	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	114	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point117	117	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point116	116	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point119	119	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point118	118	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point121	121	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point120	120	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	123	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	122	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point125	125	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point124	124	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point127	127	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point126	126	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point129	129	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point128	128	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 31	W	0.00	99.99	0.00			0.00	point131	131	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point130	130	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00			0.00	point133	133	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point132	132	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00			0.00	point135	135	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point134	134	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00			0.00	point137	137	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point136	136	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00			0.00	point139	139	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point138	138	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00			0.00	point141	141	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point140	140	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00			0.00	point143	143	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point142	142	6,765,577.0	1,837,024.2	979.30	15.00					
Existing wall 9	W	0.00	99.99	0.00			0.00	point97	149	6,766,517.5	1,835,485.5	986.00	6.00	0.00	0	0		
								point98	150	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
								point99	151	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
								point100	152	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
								point101	153	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
								point102	154	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	155	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	156	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	157	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	158	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point119	159	6,767,311.5	1,836,437.0	1,007.20	6.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point252	160	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
								point118	161	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
								point117	162	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
								point116	163	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point253	164	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
								point115	165	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
								point114	166	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
								point113	167	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
								point217	168	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
								point218	169	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
								point219	170	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
								point220	171	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
								point221	172	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
								point245	173	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
								point246	174	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
								point247	175	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
								point248	176	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
								point249	177	6,767,675.5	1,836,811.1	1,011.00	6.00					
Barrier56	W	0.00	99.99	0.00			0.00	point256	178	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
								point250	179	6,767,715.0	1,836,788.8	1,013.50	5.00					
Barrier57	W	0.00	99.99	0.00			0.00	point255	180	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
								point251	181	6,767,816.0	1,836,961.2	1,016.00	5.00					

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Calibration 05

BARRIER DESIGN: INPUT HEIGHTS

Barriers										
Name	Type	Heights along Barrier			Length	If Wall	If Berm	Top	Run:Rise	Cost
		Min	Avg	Max						
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$
Existing Wall 5a	W	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777				0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664				0
Existing Wall 4b	W	12.60	12.60	12.60	698	8794				0
Existing Wall 8	W	5.30	5.30	5.30	768	4070				0
Existing Wall 7	W	5.30	5.30	5.30	253	1341				0
Building Barrier 9	W	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	5.00	5.00	5.00	143	716				0
Existing Wall 3	W	5.00	5.00	5.00	160	801				0
Building Barrier 1	W	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	25.00	25.00	25.00	122	3046				0
Building Barrier 4	W	25.00	25.00	25.00	384	9597				0
Building Barrier 5	W	20.00	20.00	20.00	145	2899				0
Building Barrier 6	W	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	15.00	15.00	15.00	145	2168				0
Building Barrier 20	W	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	15.00	15.00	15.00	430	6443				0
Building Barrier 28	W	15.00	15.00	15.00	60	905				0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.																		14 January 2011
Teak Kim																		TNM 2.5

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration 05
 BARRIER DESIGN: INPUT HEIGHTS

Barriers		Segments		Heights			Length	If Wall	If Berm	Cost		
Name	Type	Name	No.	First Point	Average	Second Point					Area	On Struc?
				ft	ft	ft	ft	sq ft			cu yd	\$
Existing Wall 5a	W	point1	1	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	point12	12	6.00	6.00	6.00	175	1053				0
		point3	3	6.00	6.00	6.00	175	1048				0
		point4	4	6.00	6.00	6.00	175	1051				0
		point5	5	6.00	6.00	6.00	35	211				0
		point6	6	6.00	6.00	6.00	76	458				0
		point7	7	6.00	6.00	6.00	21	124				0
		point8	8	6.00	6.00	6.00	187	1124				0
		point9	9	6.00	6.00	6.00	66	397				0
		point10	10	6.00	6.00	6.00	52	312				0
		Existing Wall 4a	W	point13	13	8.00	8.00	8.00	48	385		
point14	14			8.00	8.00	8.00	6	49				0
point15	15			8.00	8.00	8.00	154	1230				0
Existing Wall 4b	W	point20	20	12.60	12.60	12.60	164	2068				0
		point17	17	12.60	12.60	12.60	236	2967				0
		point18	18	12.60	12.60	12.60	298	3759				0
Existing Wall 8	W	point21	21	5.30	5.30	5.30	115	610				0
		point22	22	5.30	5.30	5.30	128	676				0
		point23	23	5.30	5.30	5.30	218	1153				0
		point24	24	5.30	5.30	5.30	138	730				0
		point25	25	5.30	5.30	5.30	30	161				0
		point26	26	5.30	5.30	5.30	5	27				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point27	27	5.30	5.30	5.30	81	427				0
		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 9	W	point44	44	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	point46	46	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	point48	48	5.00	5.00	5.00	78	388				0
		point49	49	5.00	5.00	5.00	65	327				0
Existing Wall 3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 28	W	point97	97	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	point99	99	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	point101	101	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	point103	103	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	point105	105	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	point107	107	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	point111	111	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	point113	113	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	115	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	point117	117	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	point119	119	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	point121	121	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	point123	123	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	point125	125	15.00	15.00	15.00	45	679				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 26	W	point127	127	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	point129	129	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	point131	131	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	point133	133	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	point135	135	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	point137	137	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	point139	139	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	point141	141	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	point143	143	15.00	15.00	15.00	46	687				0
Existing wall 9	W	point97	149	6.00	6.00	6.00	59	351				0
		point98	150	6.00	6.00	6.00	129	771				0
		point99	151	6.00	6.00	6.00	109	654				0
		point100	152	6.00	6.00	6.00	120	720				0
		point101	153	6.00	6.00	6.00	115	687				0
Building Barrier 12	W	point126	155	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	point121	157	6.00	6.00	6.00	54	321				0
		point120	158	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	160	7.00	7.00	7.00	29	201				0
		point118	161	7.00	7.00	7.00	72	507				0
		point117	162	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	164	6.00	6.00	6.00	72	430				0
		point115	165	6.00	6.00	6.00	10	60				0
		point114	166	6.00	6.00	6.00	81	485				0
		point113	167	6.00	6.00	6.00	3	20				0
		point217	168	6.00	6.00	6.00	36	214				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point218	169	6.00	6.00	6.00	9	51				0
		point219	170	6.00	6.00	6.00	27	164				0
		point220	171	6.00	6.00	6.00	3	20				0
		point221	172	6.00	6.00	6.00	8	49				0
		point245	173	6.00	6.00	6.00	81	483				0
		point246	174	6.00	6.00	6.00	124	743				0
		point247	175	6.00	6.00	6.00	44	262				0
		point248	176	6.00	6.00	6.00	72	435				0
Barrier56	W	point256	178	5.00	5.00	5.00	45	227				0
Barrier57	W	point255	180	5.00	5.00	5.00	127	633				0

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.				14 January 2011		
Teak Kim				TNM 2.5		
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:		I-215/Barton Road Interchange				
RUN:		Calibration 05				
Building Row			Points			
Name	Average	Building	No.	Coordinates (ground)		
	Height	Percent		X	Y	Z
	ft	%		ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building11	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

INPUT: RECEIVERS

I-215/Barton Road Interchange

LSA Associates, Inc.							14 January 2011				
Teak Kim							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		I-215/Barton Road Interchange									
RUN:		Calibration 05									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-5	1	1	6,767,417.0	1,836,534.2	1,010.00	5.00	0.00	66	12.0	5.0	
R-26	2	1	6,767,358.0	1,836,154.8	1,010.00	5.00	0.00	66	12.0	5.0	
R-27	3	1	6,767,277.5	1,836,233.9	1,010.00	5.00	0.00	66	12.0	5.0	
R-28	4	1	6,767,223.0	1,836,270.5	1,007.00	5.00	0.00	66	12.0	5.0	
R-29	5	1	6,767,312.0	1,836,257.5	1,011.00	5.00	0.00	66	12.0	5.0	
R-30	6	1	6,767,346.0	1,836,387.4	1,010.00	5.00	0.00	66	12.0	5.0	
R-31	7	1	6,767,427.5	1,836,506.8	1,010.00	5.00	0.00	66	12.0	5.0	
R-32	8	1	6,767,537.5	1,836,615.4	1,011.00	5.00	0.00	66	12.0	5.0	
R-33	9	1	6,767,654.5	1,836,580.0	1,014.00	5.00	0.00	66	12.0	5.0	
R-34	10	1	6,767,654.0	1,836,659.0	1,013.00	5.00	0.00	66	12.0	5.0	
R-35	11	1	6,767,720.5	1,836,824.5	1,014.00	5.00	0.00	66	12.0	5.0	
R-39	12	1	6,767,876.5	1,836,960.5	1,018.00	5.00	0.00	66	12.0	5.0	
R-40	13	1	6,767,967.5	1,836,962.1	1,022.00	5.00	0.00	66	12.0	5.0	
R-41	14	1	6,768,042.0	1,836,960.5	1,027.00	5.00	0.00	66	12.0	5.0	
R-42	15	1	6,768,020.5	1,836,994.5	1,027.00	5.00	0.00	66	12.0	5.0	

INPUT: ROADWAYS

I-215/Barton Road Interchange

LSA Associates, Inc. Teak Kim				14 January 2011 TNM 2.5							
INPUT: ROADWAYS				I-215/Barton Road Interchange			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT:				Calibration 05							
RUN:											
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
I-215 NB Lane 3	36.0	point76	76	6,763,402.0	1,832,218.9	915.20				Average	
		point75	75	6,763,588.5	1,832,466.2	915.20				Average	
		point74	74	6,763,739.5	1,832,664.8	915.60				Average	
		point73	73	6,763,892.0	1,832,859.2	916.50				Average	
		point72	72	6,764,051.5	1,833,044.8	917.70				Average	
		point71	71	6,764,219.0	1,833,227.5	919.20				Average	
		point70	70	6,764,399.5	1,833,422.5	925.20				Average	
		point69	69	6,764,540.5	1,833,573.9	932.10				Average	
		point68	68	6,764,691.0	1,833,736.1	940.00				Average	
		point67	67	6,764,858.5	1,833,916.9	949.00				Average	
		point66	66	6,764,998.5	1,834,069.9	955.20				Average	
		point65	65	6,765,162.0	1,834,245.8	959.20				Average	
		point64	64	6,765,331.0	1,834,427.2	960.40				Average	
		point63	63	6,765,512.5	1,834,623.5	961.20				Average	
		point62	62	6,765,686.0	1,834,810.2	961.90				Average	
		point61	61	6,765,876.0	1,835,015.1	962.30				Average	
		point60	60	6,766,035.5	1,835,186.2	962.90				Average	
		point59	59	6,766,204.0	1,835,368.2	963.00				Average	
		point58	58	6,766,388.0	1,835,567.0	968.10				Average	
		point57	57	6,766,556.0	1,835,748.0	976.00				Average	
		point56	56	6,766,728.5	1,835,933.0	985.00				Average	
		point55	55	6,766,867.0	1,836,084.2	992.00				Average	
		point54	54	6,767,030.5	1,836,259.8	999.10				Average	
		point53	53	6,767,211.0	1,836,453.8	1,004.30				Average	
		point52	52	6,767,393.5	1,836,651.6	1,006.70				Average	

INPUT: ROADWAYS

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		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average	
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average	
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average	
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average	
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average	
		point46	46	6,768,365.0	1,837,698.0	998.70				Average	
		point45	45	6,768,518.0	1,837,862.1	995.60				Average	
		point44	44	6,768,674.5	1,838,022.8	993.30				Average	
		point43	43	6,768,823.5	1,838,166.2	990.10				Average	
		point42	42	6,768,980.5	1,838,313.8	985.20				Average	
		point41	41	6,769,152.5	1,838,462.6	979.50				Average	
		point40	40	6,769,332.5	1,838,617.5	973.70				Average	
		point39	39	6,769,526.0	1,838,779.8	966.90					
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average	
		point114	114	6,769,306.0	1,838,640.9	973.60				Average	
		point113	113	6,769,128.0	1,838,488.2	979.80				Average	
		point112	112	6,768,955.5	1,838,338.1	985.60				Average	
		point111	111	6,768,799.0	1,838,190.2	990.80				Average	
		point110	110	6,768,650.0	1,838,046.2	993.50				Average	
		point109	109	6,768,494.0	1,837,885.0	996.00				Average	
		point108	108	6,768,337.5	1,837,718.9	998.70				Average	
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average	
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average	
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average	
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average	
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average	
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average	
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average	
		point100	100	6,767,004.0	1,836,280.2	999.10				Average	
		point99	99	6,766,841.5	1,836,104.6	992.10				Average	
		point98	98	6,766,703.0	1,835,954.8	984.90				Average	
		point97	97	6,766,530.0	1,835,768.2	976.10				Average	
		point96	96	6,766,361.5	1,835,587.1	967.90				Average	
		point95	95	6,766,157.5	1,835,368.2	963.10				Average	
		point94	94	6,766,012.5	1,835,211.8	963.00				Average	
		point93	93	6,765,850.5	1,835,035.8	962.30				Average	
		point92	92	6,765,661.0	1,834,831.2	961.80				Average	
		point91	91	6,765,487.5	1,834,644.8	961.20				Average	
		point90	90	6,765,305.5	1,834,449.4	960.40				Average	

INPUT: ROADWAYS

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		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

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		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00					Average
		point256	256	6,764,014.5	1,835,366.4	953.50					Average
		point255	255	6,764,147.0	1,835,365.4	953.00					Average
		point254	254	6,764,493.5	1,835,375.1	965.50					Average
		point253	253	6,764,793.0	1,835,380.8	979.70					Average
		point252	252	6,765,094.5	1,835,380.8	972.00					Average
		point251	251	6,765,404.5	1,835,380.8	973.00					Average
		point250	250	6,765,697.0	1,835,379.8	977.30					Average
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50					Average
		point421	421	6,766,581.5	1,835,376.4	986.50					Average
		point259	259	6,766,754.0	1,835,377.4	989.00					Average
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100		Average
		point292	292	6,766,902.5	1,835,415.9	992.60					Average
		point291	291	6,766,755.5	1,835,415.0	989.20					Average
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00					Average
		point432	432	6,766,404.5	1,835,412.9	984.70					Average
		point303	303	6,766,337.5	1,835,409.2	985.00					Average
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50					Average
		point312	312	6,765,393.5	1,835,410.8	972.50					Average
		point311	311	6,765,428.5	1,835,587.1	971.00					Average
		point310	310	6,765,470.0	1,835,755.1	970.50					Average
		point309	309	6,765,519.5	1,836,010.5	972.00					Average
		point308	308	6,765,571.5	1,836,274.8	974.00					Average
		point307	307	6,765,596.5	1,836,444.6	976.00					Average
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100		Average
		point403	403	6,765,707.0	1,837,002.5	978.70					Average
		point404	404	6,765,713.5	1,837,015.4	978.00					Average
		point319	319	6,765,725.5	1,837,037.5	977.40					Average
		point318	318	6,765,777.5	1,837,150.5	969.50					Average
		point317	317	6,765,800.5	1,837,183.2	969.50					Average
		point316	316	6,765,829.5	1,837,210.5	969.50					Average
		point315	315	6,765,853.0	1,837,247.2	969.50					Average
		point314	314	6,765,892.0	1,837,349.2	969.50					Average

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		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

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		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

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		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

INPUT: ROADWAYS

I-215/Barton Road Interchange

Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40					
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse SB	12.0	point535	535	6,765,862.0	1,835,377.6	979.00				Average
		point536	536	6,765,848.0	1,835,263.8	975.50				Average
		point537	537	6,765,777.5	1,835,155.6	972.50				Average
		point538	538	6,765,702.5	1,835,060.4	970.50				Average
		point539	539	6,765,620.5	1,834,962.1	969.00				Average
		point540	540	6,765,452.0	1,834,758.2	964.50				
La Crosse (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point550	550	6,765,886.0	1,835,408.9	981.00					
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50					Average
		point37	37	6,763,604.0	1,832,456.6	914.50					Average
		point36	36	6,763,754.5	1,832,654.2	915.10					Average
		point35	35	6,763,905.5	1,832,849.8	916.10					Average
		point34	34	6,764,066.0	1,833,033.0	917.00					Average
		point33	33	6,764,233.5	1,833,215.5	918.50					Average
		point32	32	6,764,413.0	1,833,410.2	925.00					Average
		point31	31	6,764,553.5	1,833,563.0	932.00					Average
		point30	30	6,764,706.0	1,833,725.1	940.00					Average
		point29	29	6,764,871.5	1,833,906.1	949.00					Average
		point28	28	6,765,012.0	1,834,058.8	955.00					Average
		point27	27	6,765,176.5	1,834,233.2	958.90					Average
		point26	26	6,765,345.5	1,834,416.4	960.20					Average
		point25	25	6,765,527.5	1,834,612.0	960.80					Average
		point534	534	6,765,700.5	1,834,797.2	961.60					Average
		point23	23	6,765,891.0	1,835,003.8	962.10					Average
		point22	22	6,766,048.5	1,835,174.6	962.90					Average
		point21	21	6,766,219.5	1,835,357.8	963.20					Average
		point533	533	6,766,311.0	1,835,456.6	965.60					Average
		point20	20	6,766,402.5	1,835,555.5	968.00					Average
		point19	19	6,766,570.5	1,835,735.8	976.00					Average
		point18	18	6,766,741.5	1,835,920.5	985.00					Average
		point17	17	6,766,882.5	1,836,070.9	992.00					Average
		point16	16	6,767,044.5	1,836,249.0	999.00					Average
		point15	15	6,767,225.5	1,836,441.8	1,004.00					Average
		point14	14	6,767,407.5	1,836,639.4	1,006.20					Average
		point13	13	6,767,568.5	1,836,812.4	1,006.40					Average
		point12	12	6,767,719.0	1,836,975.2	1,007.10					Average
		point11	11	6,767,875.5	1,837,142.4	1,007.00					Average
		point10	10	6,768,047.0	1,837,328.5	1,004.90					Average
		point9	9	6,768,198.0	1,837,490.8	1,002.00					Average
		point8	8	6,768,380.0	1,837,686.9	998.40					Average
		point7	7	6,768,531.0	1,837,849.8	995.40					Average
		point6	6	6,768,688.0	1,838,010.4	993.00					Average
		point5	5	6,768,836.5	1,838,152.2	990.00					Average
		point4	4	6,768,994.0	1,838,300.6	985.00					Average
		point3	3	6,769,165.5	1,838,448.9	979.50					Average
		point2	2	6,769,345.5	1,838,603.8	973.60					Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point1	1	6,769,539.0	1,838,765.9	966.40					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50					Average
		point156	156	6,769,292.0	1,838,653.6	973.10					Average
		point155	155	6,769,114.0	1,838,500.6	979.80					Average
		point154	154	6,768,941.5	1,838,350.8	985.80					Average
		point153	153	6,768,787.0	1,838,201.9	991.00					Average
		point152	152	6,768,637.5	1,838,059.1	994.00					Average
		point151	151	6,768,481.5	1,837,899.8	996.50					Average
		point150	150	6,768,324.5	1,837,731.5	998.70					Average
		point149	149	6,768,146.5	1,837,539.2	1,001.90					Average
		point148	148	6,767,994.0	1,837,374.8	1,004.80					Average
		point147	147	6,767,820.5	1,837,188.2	1,006.90					Average
		point146	146	6,767,668.0	1,837,022.6	1,007.10					Average
		point145	145	6,767,517.0	1,836,860.6	1,006.70					Average
		point144	144	6,767,356.0	1,836,686.2	1,006.20					Average
		point532	532	6,767,172.0	1,836,487.9	1,004.00					Average
		point142	142	6,766,991.0	1,836,292.2	998.90					Average
		point141	141	6,766,828.5	1,836,116.8	992.00					Average
		point140	140	6,766,689.5	1,835,966.8	984.50					Average
		point139	139	6,766,517.0	1,835,781.0	976.00					Average
		point138	138	6,766,348.0	1,835,599.4	967.80					Average
		point531	531	6,766,133.0	1,835,368.1	963.30					Average
		point136	136	6,765,999.5	1,835,223.5	962.80					Average
		point135	135	6,765,837.0	1,835,048.1	962.20					Average
		point134	134	6,765,647.5	1,834,843.9	961.70					Average
		point133	133	6,765,474.0	1,834,657.2	960.90					Average
		point132	132	6,765,292.5	1,834,461.8	960.40					Average
		point131	131	6,765,124.5	1,834,280.2	958.70					Average
		point130	130	6,764,960.5	1,834,102.9	954.80					Average
		point129	129	6,764,819.5	1,833,952.1	948.40					Average
		point128	128	6,764,650.5	1,833,769.1	939.80					Average
		point127	127	6,764,500.5	1,833,607.5	932.00					Average
		point126	126	6,764,368.5	1,833,463.8	925.50					Average
		point125	125	6,764,179.0	1,833,259.9	919.50					Average
		point124	124	6,764,013.0	1,833,077.6	918.20					Average
		point123	123	6,763,850.5	1,832,887.6	917.10					Average
		point122	122	6,763,711.5	1,832,715.1	916.30					Average
		point121	121	6,763,546.0	1,832,498.2	915.40					Average
		point120	120	6,763,362.0	1,832,252.2	915.40					

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse NB	12.0	point552	552	6,765,466.0	1,834,747.4	966.00				Average	
		point553	553	6,765,633.5	1,834,955.2	969.00				Average	
		point554	554	6,765,713.0	1,835,053.5	971.00				Average	
		point555	555	6,765,794.0	1,835,144.2	973.00				Average	
		point556	556	6,765,864.5	1,835,255.5	976.00				Average	
		point557	557	6,765,905.5	1,835,377.1	979.00					

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

LSA Associates, Inc.						17 January 2011							
Teak Kim						TNM 2.5							
						Calculated with TNM 2.5							
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:			I-215/Barton Road Interchange										
RUN:			Calibration 05										
BARRIER DESIGN:			INPUT HEIGHTS						Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.				
ATMOSPHERICS:			68 deg F, 50% RH										
Receiver													
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing		With Barrier				
							Calculated	Crit'n	Type Impact	Calculated LAeq1h	Noise Reduction		
								Sub'l Inc			Calculated	Goal	Calculated minus Goal
				dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
M-5		1	1	0.0	78.5	66	78.5	12	Snd Lvl	78.5	0.0	5	-5.0
R-26		2	1	0.0	63.5	66	63.5	12	----	63.5	0.0	5	-5.0
R-27		3	1	0.0	72.2	66	72.2	12	Snd Lvl	72.2	0.0	5	-5.0
R-28		4	1	0.0	76.0	66	76.0	12	Snd Lvl	76.0	0.0	5	-5.0
R-29		5	1	0.0	71.5	66	71.5	12	Snd Lvl	71.5	0.0	5	-5.0
R-30		6	1	0.0	70.5	66	70.5	12	Snd Lvl	70.5	0.0	5	-5.0
R-31		7	1	0.0	69.4	66	69.4	12	Snd Lvl	69.4	0.0	5	-5.0
R-32		8	1	0.0	71.3	66	71.3	12	Snd Lvl	71.3	0.0	5	-5.0
R-33		9	1	0.0	64.4	66	64.4	12	----	64.4	0.0	5	-5.0
R-34		10	1	0.0	66.5	66	66.5	12	Snd Lvl	66.5	0.0	5	-5.0
R-35		11	1	0.0	76.5	66	76.5	12	Snd Lvl	76.5	0.0	5	-5.0
R-39		12	1	0.0	74.8	66	74.8	12	Snd Lvl	74.8	0.0	5	-5.0
R-40		13	1	0.0	70.7	66	70.7	12	Snd Lvl	70.7	0.0	5	-5.0
R-41		14	1	0.0	68.2	66	68.2	12	Snd Lvl	68.2	0.0	5	-5.0
R-42		15	1	0.0	70.4	66	70.4	12	Snd Lvl	70.4	0.0	5	-5.0
Dwelling Units		# DUs		Noise Reduction									
				Min	Avg	Max							
				dB	dB	dB							
All Selected		15		0.0	0.0	0.0							
All Impacted		13		0.0	0.0	0.0							
All that meet NR Goal		0		0.0	0.0	0.0							

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011		
Teak Kim		TNM 2.5		
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:		I-215/Barton Road Interchange		
RUN:		Calibration 05		
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,764,381.5	1,833,279.8	942.00
	2	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,016.5	1,833,967.0	943.00
	6	6,765,092.0	1,834,055.4	945.00
	7	6,765,258.0	1,834,237.6	954.00
	8	6,765,400.0	1,834,395.8	960.00
	9	6,765,541.0	1,834,544.6	964.00
	10	6,765,738.0	1,834,749.4	972.00
Terrain Line6	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	16	6,766,314.0	1,835,368.2	984.00
Terrain Line7	22	6,766,507.0	1,835,493.1	986.00
	23	6,766,573.5	1,835,591.8	987.00
	24	6,766,630.0	1,835,668.0	987.00
	25	6,766,679.5	1,835,723.8	989.00
	26	6,766,758.0	1,835,818.9	990.00
	27	6,766,863.0	1,835,948.1	994.00
	28	6,766,975.0	1,836,081.6	998.00
	29	6,767,078.5	1,836,200.6	1,001.00
	30	6,767,228.0	1,836,360.2	1,004.00
	31	6,767,393.0	1,836,514.6	1,010.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00

INPUT: TERRAIN LINES**I-215/Barton Road Interchange**

	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00
	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line15	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line14	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line11	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
	99	6,766,171.0	1,835,508.8	985.00
	100	6,766,103.5	1,835,420.1	982.00
Terrain Line8	102	6,767,393.0	1,836,514.6	1,010.00
	32	6,767,432.0	1,836,546.8	1,010.00
Terrain Line9	106	6,767,811.0	1,836,956.8	1,015.00
	37	6,767,911.0	1,837,066.2	1,017.00
	38	6,767,981.5	1,837,102.2	1,020.00
Terrain Line5	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,206.5	1,835,144.8	975.00
Terrain Line13	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,149.0	1,836,589.2	992.00
Terrain Line12	125	6,765,595.0	1,835,437.0	980.00
	126	6,765,566.0	1,835,436.2	979.30
	127	6,765,445.5	1,835,448.2	976.50

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011										
Teak Kim		TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:		I-215/Barton Road Interchange										
RUN:		Calibration 05										
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3	point76	76	1224	67	52	52	53	52	0	0	0	0
	point75	75	1224	67	52	52	53	52	0	0	0	0
	point74	74	1224	67	52	52	53	52	0	0	0	0
	point73	73	1224	67	52	52	53	52	0	0	0	0
	point72	72	1224	67	52	52	53	52	0	0	0	0
	point71	71	1224	67	52	52	53	52	0	0	0	0
	point70	70	1224	67	52	52	53	52	0	0	0	0
	point69	69	1224	67	52	52	53	52	0	0	0	0
	point68	68	1224	67	52	52	53	52	0	0	0	0
	point67	67	1224	67	52	52	53	52	0	0	0	0
	point66	66	1224	67	52	52	53	52	0	0	0	0
	point65	65	1224	67	52	52	53	52	0	0	0	0
	point64	64	1224	67	52	52	53	52	0	0	0	0
	point63	63	1224	67	52	52	53	52	0	0	0	0
	point62	62	1224	67	52	52	53	52	0	0	0	0
	point61	61	1224	67	52	52	53	52	0	0	0	0
	point60	60	1224	67	52	52	53	52	0	0	0	0
	point59	59	1224	67	52	52	53	52	0	0	0	0
	point58	58	1224	67	52	52	53	52	0	0	0	0
	point57	57	1224	67	52	52	53	52	0	0	0	0
	point56	56	1224	67	52	52	53	52	0	0	0	0
	point55	55	1224	67	52	52	53	52	0	0	0	0
	point54	54	1224	67	52	52	53	52	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1224	67	52	52	53	52	0	0	0	0
	point52	52	1224	67	52	52	53	52	0	0	0	0
	point51	51	1224	67	52	52	53	52	0	0	0	0
	point50	50	1224	67	52	52	53	52	0	0	0	0
	point49	49	1224	67	52	52	53	52	0	0	0	0
	point48	48	1224	67	52	52	53	52	0	0	0	0
	point47	47	1224	67	52	52	53	52	0	0	0	0
	point46	46	1224	67	52	52	53	52	0	0	0	0
	point45	45	1224	67	52	52	53	52	0	0	0	0
	point44	44	1224	67	52	52	53	52	0	0	0	0
	point43	43	1224	67	52	52	53	52	0	0	0	0
	point42	42	1224	67	52	52	53	52	0	0	0	0
	point41	41	1224	67	52	52	53	52	0	0	0	0
	point40	40	1224	67	52	52	53	52	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1220	67	79	52	61	52	0	0	0	0
	point114	114	1220	67	79	52	61	52	0	0	0	0
	point113	113	1220	67	79	52	61	52	0	0	0	0
	point112	112	1220	67	79	52	61	52	0	0	0	0
	point111	111	1220	67	79	52	61	52	0	0	0	0
	point110	110	1220	67	79	52	61	52	0	0	0	0
	point109	109	1220	67	79	52	61	52	0	0	0	0
	point108	108	1220	67	79	52	61	52	0	0	0	0
	point107	107	1220	67	79	52	61	52	0	0	0	0
	point106	106	1220	67	79	52	61	52	0	0	0	0
	point105	105	1220	67	79	52	61	52	0	0	0	0
	point104	104	1220	67	79	52	61	52	0	0	0	0
	point103	103	1220	67	79	52	61	52	0	0	0	0
	point102	102	1220	67	79	52	61	52	0	0	0	0
	point101	101	1220	67	79	52	61	52	0	0	0	0
	point100	100	1220	67	79	52	61	52	0	0	0	0
	point99	99	1220	67	79	52	61	52	0	0	0	0
	point98	98	1220	67	79	52	61	52	0	0	0	0
	point97	97	1220	67	79	52	61	52	0	0	0	0
	point96	96	1220	67	79	52	61	52	0	0	0	0
	point95	95	1220	67	79	52	61	52	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1220	67	79	52	61	52	0	0	0	0
	point93	93	1220	67	79	52	61	52	0	0	0	0
	point92	92	1220	67	79	52	61	52	0	0	0	0
	point91	91	1220	67	79	52	61	52	0	0	0	0
	point90	90	1220	67	79	52	61	52	0	0	0	0
	point89	89	1220	67	79	52	61	52	0	0	0	0
	point88	88	1220	67	79	52	61	52	0	0	0	0
	point87	87	1220	67	79	52	61	52	0	0	0	0
	point86	86	1220	67	79	52	61	52	0	0	0	0
	point85	85	1220	67	79	52	61	52	0	0	0	0
	point84	84	1220	67	79	52	61	52	0	0	0	0
	point83	83	1220	67	79	52	61	52	0	0	0	0
	point82	82	1220	67	79	52	61	52	0	0	0	0
	point81	81	1220	67	79	52	61	52	0	0	0	0
	point80	80	1220	67	79	52	61	52	0	0	0	0
	point79	79	1220	67	79	52	61	52	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	304	45	36	45	8	40	0	0	0	0
	point200	200	304	45	36	45	8	40	0	0	0	0
	point201	201	304	45	36	45	8	40	0	0	0	0
	point202	202	304	45	36	45	8	40	0	0	0	0
	point203	203	304	45	36	45	8	40	0	0	0	0
	point204	204	304	45	36	45	8	40	0	0	0	0
	point205	205	304	45	36	45	8	40	0	0	0	0
	point206	206	304	45	36	45	8	40	0	0	0	0
	point207	207	304	45	36	45	8	40	0	0	0	0
	point208	208	213	45	25	45	6	40	0	0	0	0
	point209	209	213	45	25	45	6	40	0	0	0	0
	point210	210	213	45	25	45	6	40	0	0	0	0
	point435	435	213	40	25	40	6	35	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	0	0	0	0	0	0	0	0	0	0
	point223	223	0	0	0	0	0	0	0	0	0	0
	point224	224	0	0	0	0	0	0	0	0	0	0
	point225	225	0	0	0	0	0	0	0	0	0	0
	point226	226	0	0	0	0	0	0	0	0	0	0
	point227	227	0	0	0	0	0	0	0	0	0	0
	point228	228	0	0	0	0	0	0	0	0	0	0
	point420	420	0	0	0	0	0	0	0	0	0	0
	point229	229										
Barton EB	point257	257	0	0	0	0	0	0	0	0	0	0
	point256	256	0	0	0	0	0	0	0	0	0	0
	point255	255	0	0	0	0	0	0	0	0	0	0
	point254	254	0	0	0	0	0	0	0	0	0	0
	point253	253	0	0	0	0	0	0	0	0	0	0
	point252	252	0	0	0	0	0	0	0	0	0	0
	point251	251	0	0	0	0	0	0	0	0	0	0
	point250	250	0	0	0	0	0	0	0	0	0	0
	point436	436										
Barton EB	point260	260	0	0	0	0	0	0	0	0	0	0
	point421	421	0	0	0	0	0	0	0	0	0	0
	point259	259	0	0	0	0	0	0	0	0	0	0
	point258	258										
Barton WB	point397	397	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point291	291	0	0	0	0	0	0	0	0	0	0
	point290	290										
Barton WB	point304	304	0	0	0	0	0	0	0	0	0	0
	point432	432	0	0	0	0	0	0	0	0	0	0
	point303	303	0	0	0	0	0	0	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	0	0	0	0	0	0	0	0	0	0
	point312	312	0	0	0	0	0	0	0	0	0	0
	point311	311	0	0	0	0	0	0	0	0	0	0
	point310	310	0	0	0	0	0	0	0	0	0	0
	point309	309	0	0	0	0	0	0	0	0	0	0
	point308	308	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	0	0	0	0	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	0	0	0	0	0	0	0	0	0	0
	point403	403	0	0	0	0	0	0	0	0	0	0
	point404	404	0	0	0	0	0	0	0	0	0	0
	point319	319	0	0	0	0	0	0	0	0	0	0
	point318	318	0	0	0	0	0	0	0	0	0	0
	point317	317	0	0	0	0	0	0	0	0	0	0
	point316	316	0	0	0	0	0	0	0	0	0	0
	point315	315	0	0	0	0	0	0	0	0	0	0
	point314	314	0	0	0	0	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	0	0	0	0	0	0	0	0	0	0
	point406	406	0	0	0	0	0	0	0	0	0	0
	point407	407	0	0	0	0	0	0	0	0	0	0
	point326	326	0	0	0	0	0	0	0	0	0	0
	point325	325	0	0	0	0	0	0	0	0	0	0
	point324	324	0	0	0	0	0	0	0	0	0	0
	point323	323	0	0	0	0	0	0	0	0	0	0
	point322	322	0	0	0	0	0	0	0	0	0	0
	point321	321	0	0	0	0	0	0	0	0	0	0
	point425	425	0	0	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	0	0	0	0	0	0	0	0	0	0
	point332	332	0	0	0	0	0	0	0	0	0	0
	point331	331	0	0	0	0	0	0	0	0	0	0
	point330	330	0	0	0	0	0	0	0	0	0	0
	point329	329	0	0	0	0	0	0	0	0	0	0
	point328	328	0	0	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB	point426	426	0	0	0	0	0	0	0	0	0	0
	point363	363	0	0	0	0	0	0	0	0	0	0
	point364	364	0	0	0	0	0	0	0	0	0	0
	point365	365	0	0	0	0	0	0	0	0	0	0
	point366	366	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	0	0	0	0	0	0	0	0	0	0
	point368	368	0	0	0	0	0	0	0	0	0	0
	point430	430	0	0	0	0	0	0	0	0	0	0
	point369	369										
Michigan NB	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB	point431	431	0	0	0	0	0	0	0	0	0	0
	point374	374	0	0	0	0	0	0	0	0	0	0
	point375	375	0	0	0	0	0	0	0	0	0	0
	point376	376	0	0	0	0	0	0	0	0	0	0
	point377	377	0	0	0	0	0	0	0	0	0	0
	point378	378	0	0	0	0	0	0	0	0	0	0
	point379	379	0	0	0	0	0	0	0	0	0	0
	point380	380										
Michigan SB	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB Ln	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point441	441	0	0	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	0	0	0	0	0	0	0	0	0	0
	point249	249	0	0	0	0	0	0	0	0	0	0
	point248	248	0	0	0	0	0	0	0	0	0	0
	point247	247										
Barton WB	point445	445	0	0	0	0	0	0	0	0	0	0
	point434	434	0	0	0	0	0	0	0	0	0	0
	point301	301	0	0	0	0	0	0	0	0	0	0
	point300	300	0	0	0	0	0	0	0	0	0	0
	point422	422	0	0	0	0	0	0	0	0	0	0
	point423	423	0	0	0	0	0	0	0	0	0	0
	point299	299	0	0	0	0	0	0	0	0	0	0
	point298	298	0	0	0	0	0	0	0	0	0	0
	point297	297	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point294	294										
Barton EB	point398	398	0	0	0	0	0	0	0	0	0	0
	point428	428	0	0	0	0	0	0	0	0	0	0
	point429	429	0	0	0	0	0	0	0	0	0	0
	point268	268	0	0	0	0	0	0	0	0	0	0
	point267	267	0	0	0	0	0	0	0	0	0	0
	point266	266	0	0	0	0	0	0	0	0	0	0
	point265	265	0	0	0	0	0	0	0	0	0	0
	point264	264	0	0	0	0	0	0	0	0	0	0
	point263	263	0	0	0	0	0	0	0	0	0	0
	point262	262	0	0	0	0	0	0	0	0	0	0
	point439	439	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	0	0	0	0	0	0	0	0	0	0
	point269	269										
Barton WB	point280	280	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point438	438	0	0	0	0	0	0	0	0	0	0
	point289	289	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point286	286	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point412	412	0	0	0	0	0	0	0	0	0	0
	point413	413	0	0	0	0	0	0	0	0	0	0
	point283	283	0	0	0	0	0	0	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point462	462	0	0	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	208	67	12	52	20	52	0	0	0	0
	point239	239	208	67	12	52	20	52	0	0	0	0
	point238	238	208	67	12	52	20	52	0	0	0	0
	point237	237	208	67	12	52	20	52	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point236	236	208	67	12	52	20	52	0	0	0	0
	point235	235	208	67	12	52	20	52	0	0	0	0
	point234	234	208	67	12	52	20	52	0	0	0	0
	point233	233	208	67	12	52	20	52	0	0	0	0
	point232	232	208	67	12	52	20	52	0	0	0	0
	point231	231	208	67	12	52	20	52	0	0	0	0
	point450	450	208	67	12	52	20	52	0	0	0	0
	point451	451	208	67	12	52	20	52	0	0	0	0
	point452	452	208	67	12	52	20	52	0	0	0	0
	point453	453	208	67	12	52	20	52	0	0	0	0
	point454	454	208	67	12	52	20	52	0	0	0	0
	point456	456	208	67	12	52	20	52	0	0	0	0
	point7	522	208	67	12	52	20	52	0	0	0	0
	point6	523	208	67	12	52	20	52	0	0	0	0
	point5	524	208	67	12	52	20	52	0	0	0	0
	point4	525	208	67	12	52	20	52	0	0	0	0
	point3	526	208	67	12	52	20	52	0	0	0	0
	point2	527	208	67	12	52	20	52	0	0	0	0
	point1	528										
La Crosse SB	point535	535	0	0	0	0	0	0	0	0	0	0
	point536	536	0	0	0	0	0	0	0	0	0	0
	point537	537	0	0	0	0	0	0	0	0	0	0
	point538	538	0	0	0	0	0	0	0	0	0	0
	point539	539	0	0	0	0	0	0	0	0	0	0
	point540	540										
La Crosse (northern)	point551	551	91	45	11	45	2	40	0	0	0	0
	point547	547	91	45	11	45	2	40	0	0	0	0
	point548	548	91	45	11	45	2	40	0	0	0	0
	point549	549	91	45	11	45	2	40	0	0	0	0
	point550	550										
I-215 NB Lanes 1 & 2	point38	38	2448	67	104	52	107	52	0	0	0	0
	point37	37	2448	67	104	52	107	52	0	0	0	0
	point36	36	2448	67	104	52	107	52	0	0	0	0
	point35	35	2448	67	104	52	107	52	0	0	0	0
	point34	34	2448	67	104	52	107	52	0	0	0	0
	point33	33	2448	67	104	52	107	52	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point32	32	2448	67	104	52	107	52	0	0	0	0
	point31	31	2448	67	104	52	107	52	0	0	0	0
	point30	30	2448	67	104	52	107	52	0	0	0	0
	point29	29	2448	67	104	52	107	52	0	0	0	0
	point28	28	2448	67	104	52	107	52	0	0	0	0
	point27	27	2448	67	104	52	107	52	0	0	0	0
	point26	26	2448	67	104	52	107	52	0	0	0	0
	point25	25	2448	67	104	52	107	52	0	0	0	0
	point534	534	2448	67	104	52	107	52	0	0	0	0
	point23	23	2448	67	104	52	107	52	0	0	0	0
	point22	22	2448	67	104	52	107	52	0	0	0	0
	point21	21	2448	67	104	52	107	52	0	0	0	0
	point533	533	2448	67	104	52	107	52	0	0	0	0
	point20	20	2448	67	104	52	107	52	0	0	0	0
	point19	19	2448	67	104	52	107	52	0	0	0	0
	point18	18	2448	67	104	52	107	52	0	0	0	0
	point17	17	2448	67	104	52	107	52	0	0	0	0
	point16	16	2448	67	104	52	107	52	0	0	0	0
	point15	15	2448	67	104	52	107	52	0	0	0	0
	point14	14	2448	67	104	52	107	52	0	0	0	0
	point13	13	2448	67	104	52	107	52	0	0	0	0
	point12	12	2448	67	104	52	107	52	0	0	0	0
	point11	11	2448	67	104	52	107	52	0	0	0	0
	point10	10	2448	67	104	52	107	52	0	0	0	0
	point9	9	2448	67	104	52	107	52	0	0	0	0
	point8	8	2448	67	104	52	107	52	0	0	0	0
	point7	7	2448	67	104	52	107	52	0	0	0	0
	point6	6	2448	67	104	52	107	52	0	0	0	0
	point5	5	2448	67	104	52	107	52	0	0	0	0
	point4	4	2448	67	104	52	107	52	0	0	0	0
	point3	3	2448	67	104	52	107	52	0	0	0	0
	point2	2	2448	67	104	52	107	52	0	0	0	0
	point1	1										
I-215 SB Lanes 1 & 2	point157	157	2440	67	157	52	123	52	0	0	0	0
	point156	156	2440	67	157	52	123	52	0	0	0	0
	point155	155	2440	67	157	52	123	52	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point154	154	2440	67	157	52	123	52	0	0	0	0
	point153	153	2440	67	157	52	123	52	0	0	0	0
	point152	152	2440	67	157	52	123	52	0	0	0	0
	point151	151	2440	67	157	52	123	52	0	0	0	0
	point150	150	2440	67	157	52	123	52	0	0	0	0
	point149	149	2440	67	157	52	123	52	0	0	0	0
	point148	148	2440	67	157	52	123	52	0	0	0	0
	point147	147	2440	67	157	52	123	52	0	0	0	0
	point146	146	2440	67	157	52	123	52	0	0	0	0
	point145	145	2440	67	157	52	123	52	0	0	0	0
	point144	144	2440	67	157	52	123	52	0	0	0	0
	point532	532	2440	67	157	52	123	52	0	0	0	0
	point142	142	2440	67	157	52	123	52	0	0	0	0
	point141	141	2440	67	157	52	123	52	0	0	0	0
	point140	140	2440	67	157	52	123	52	0	0	0	0
	point139	139	2440	67	157	52	123	52	0	0	0	0
	point138	138	2440	67	157	52	123	52	0	0	0	0
	point531	531	2440	67	157	52	123	52	0	0	0	0
	point136	136	2440	67	157	52	123	52	0	0	0	0
	point135	135	2440	67	157	52	123	52	0	0	0	0
	point134	134	2440	67	157	52	123	52	0	0	0	0
	point133	133	2440	67	157	52	123	52	0	0	0	0
	point132	132	2440	67	157	52	123	52	0	0	0	0
	point131	131	2440	67	157	52	123	52	0	0	0	0
	point130	130	2440	67	157	52	123	52	0	0	0	0
	point129	129	2440	67	157	52	123	52	0	0	0	0
	point128	128	2440	67	157	52	123	52	0	0	0	0
	point127	127	2440	67	157	52	123	52	0	0	0	0
	point126	126	2440	67	157	52	123	52	0	0	0	0
	point125	125	2440	67	157	52	123	52	0	0	0	0
	point124	124	2440	67	157	52	123	52	0	0	0	0
	point123	123	2440	67	157	52	123	52	0	0	0	0
	point122	122	2440	67	157	52	123	52	0	0	0	0
	point121	121	2440	67	157	52	123	52	0	0	0	0
	point120	120										
La Crosse NB	point552	552	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**I-215/Barton Road Interchange**

	point553	553	0	0	0	0	0	0	0	0	0	0
	point554	554	0	0	0	0	0	0	0	0	0	0
	point555	555	0	0	0	0	0	0	0	0	0	0
	point556	556	0	0	0	0	0	0	0	0	0	0
	point557	557										

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration 06

Barrier									Points										
Name	Type	Height		If Wall	If Berm	Run:Rise		Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment			On	Important
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	ft:ft	\$ per Unit Length			X	Y	Z	at Point	Seg Ht	Perturbs	Struct?		
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0		
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					

INPUT: BARRIERS

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Existing Wall 1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0		
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0		
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00					
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0		
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0		
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00					
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0		
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0		
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0		
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0		
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00					
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0		
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00					
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0		
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0		
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00					
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0		
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	97	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	96	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	99	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	98	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	101	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	100	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 7	W	0.00	99.99	0.00				0.00	point103	103	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		

INPUT: BARRIERS

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									point102	102	6,768,134.5	1,835,263.8	1,022.00	15.00				
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	105	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	104	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	107	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	106	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	111	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	110	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	113	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	112	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	115	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	114	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point117	117	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point116	116	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point119	119	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point118	118	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point121	121	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point120	120	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	123	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	122	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point125	125	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point124	124	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point127	127	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point126	126	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point129	129	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point128	128	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 31	W	0.00	99.99	0.00			0.00	point131	131	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point130	130	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00			0.00	point133	133	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point132	132	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00			0.00	point135	135	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point134	134	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00			0.00	point137	137	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point136	136	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00			0.00	point139	139	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point138	138	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00			0.00	point141	141	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point140	140	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00			0.00	point143	143	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point142	142	6,765,577.0	1,837,024.2	979.30	15.00					
Existing wall 9	W	0.00	99.99	0.00			0.00	point97	149	6,766,517.5	1,835,485.5	986.00	6.00	0.00	0	0		
								point98	150	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
								point99	151	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
								point100	152	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
								point101	153	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
								point102	154	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	155	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	156	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	157	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	158	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point119	159	6,767,311.5	1,836,437.0	1,007.20	6.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point252	160	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
								point118	161	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
								point117	162	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
								point116	163	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point253	164	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
								point115	165	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
								point114	166	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
								point113	167	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
								point217	168	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
								point218	169	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
								point219	170	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
								point220	171	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
								point221	172	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
								point245	173	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
								point246	174	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
								point247	175	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
								point248	176	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
								point249	177	6,767,675.5	1,836,811.1	1,011.00	6.00					
Barrier56	W	0.00	99.99	0.00			0.00	point256	178	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
								point250	179	6,767,715.0	1,836,788.8	1,013.50	5.00					
Barrier57	W	0.00	99.99	0.00			0.00	point255	180	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
								point251	181	6,767,816.0	1,836,961.2	1,016.00	5.00					

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Calibration 06

BARRIER DESIGN: INPUT HEIGHTS

Barriers											
Name	Type	Heights along Barrier			Length	If Wall	If Berm	Top	Run:Rise	Cost	
		Min	Avg	Max							
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$	
Existing Wall 5a	W	5.30	5.30	5.30	252	1336					0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777					0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664					0
Existing Wall 4b	W	12.60	12.60	12.60	698	8794					0
Existing Wall 8	W	5.30	5.30	5.30	768	4070					0
Existing Wall 7	W	5.30	5.30	5.30	253	1341					0
Building Barrier 9	W	15.00	15.00	15.00	298	4475					0
Existing Wall 1	W	6.00	6.00	6.00	407	2443					0
Existing Wall 2	W	5.00	5.00	5.00	143	716					0
Existing Wall 3	W	5.00	5.00	5.00	160	801					0
Building Barrier 1	W	20.00	20.00	20.00	144	2875					0
Building Barrier 2	W	25.00	25.00	25.00	137	3432					0
Building Barrier 3	W	25.00	25.00	25.00	122	3046					0
Building Barrier 4	W	25.00	25.00	25.00	384	9597					0
Building Barrier 5	W	20.00	20.00	20.00	145	2899					0
Building Barrier 6	W	15.00	15.00	15.00	79	1178					0
Building Barrier 18	W	15.00	15.00	15.00	116	1744					0
Building Barrier 16	W	15.00	15.00	15.00	92	1379					0
Building Barrier 19	W	15.00	15.00	15.00	145	2168					0
Building Barrier 20	W	15.00	15.00	15.00	51	770					0
Building Barrier 17	W	15.00	15.00	15.00	222	3330					0
Building Barrier 8	W	15.00	15.00	15.00	430	6443					0
Building Barrier 28	W	15.00	15.00	15.00	60	905					0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point27	27	5.30	5.30	5.30	81	427				0
		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 9	W	point44	44	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	point46	46	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	point48	48	5.00	5.00	5.00	78	388				0
		point49	49	5.00	5.00	5.00	65	327				0
Existing Wall 3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 28	W	point97	97	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	point99	99	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	point101	101	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	point103	103	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	point105	105	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	point107	107	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	point111	111	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	point113	113	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	115	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	point117	117	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	point119	119	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	point121	121	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	point123	123	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	point125	125	15.00	15.00	15.00	45	679				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 26	W	point127	127	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	point129	129	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	point131	131	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	point133	133	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	point135	135	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	point137	137	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	point139	139	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	point141	141	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	point143	143	15.00	15.00	15.00	46	687				0
Existing wall 9	W	point97	149	6.00	6.00	6.00	59	351				0
		point98	150	6.00	6.00	6.00	129	771				0
		point99	151	6.00	6.00	6.00	109	654				0
		point100	152	6.00	6.00	6.00	120	720				0
		point101	153	6.00	6.00	6.00	115	687				0
Building Barrier 12	W	point126	155	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	point121	157	6.00	6.00	6.00	54	321				0
		point120	158	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	160	7.00	7.00	7.00	29	201				0
		point118	161	7.00	7.00	7.00	72	507				0
		point117	162	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	164	6.00	6.00	6.00	72	430				0
		point115	165	6.00	6.00	6.00	10	60				0
		point114	166	6.00	6.00	6.00	81	485				0
		point113	167	6.00	6.00	6.00	3	20				0
		point217	168	6.00	6.00	6.00	36	214				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point218	169	6.00	6.00	6.00	9	51				0
		point219	170	6.00	6.00	6.00	27	164				0
		point220	171	6.00	6.00	6.00	3	20				0
		point221	172	6.00	6.00	6.00	8	49				0
		point245	173	6.00	6.00	6.00	81	483				0
		point246	174	6.00	6.00	6.00	124	743				0
		point247	175	6.00	6.00	6.00	44	262				0
		point248	176	6.00	6.00	6.00	72	435				0
Barrier56	W	point256	178	5.00	5.00	5.00	45	227				0
Barrier57	W	point255	180	5.00	5.00	5.00	127	633				0

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.				14 January 2011		
Teak Kim				TNM 2.5		
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:		I-215/Barton Road Interchange				
RUN:		Calibration 06				
Building Row			Points			
Name	Average	Building	No.	Coordinates (ground)		
	Height	Percent		X	Y	Z
	ft	%		ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building11	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

INPUT: RECEIVERS

I-215/Barton Road Interchange

LSA Associates, Inc.							14 January 2011				
Teak Kim							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		I-215/Barton Road Interchange									
RUN:		Calibration 06									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-6	1	1	6,767,686.0	1,836,426.1	1,015.00	5.00	0.00	66	12.0	5.0	
R-36	2	1	6,767,967.0	1,836,587.1	1,021.00	5.00	0.00	66	12.0	5.0	
R-37	3	1	6,767,952.0	1,836,657.6	1,021.00	5.00	0.00	66	12.0	5.0	
R-38	4	1	6,767,948.0	1,836,724.2	1,022.00	5.00	0.00	66	12.0	5.0	
R-46	5	1	6,767,488.0	1,836,140.5	1,013.00	5.00	0.00	66	12.0	5.0	
R-47	6	1	6,767,521.0	1,836,333.1	1,014.00	5.00	0.00	66	12.0	5.0	
R-48	7	1	6,767,622.0	1,836,368.2	1,020.00	5.00	0.00	66	12.0	5.0	
R-49	8	1	6,767,667.0	1,836,407.6	1,015.00	5.00	0.00	66	12.0	5.0	
R-50	9	1	6,767,729.5	1,836,490.5	1,021.00	5.00	0.00	66	12.0	5.0	
R-51	10	1	6,767,779.5	1,836,375.9	1,025.00	5.00	0.00	66	12.0	5.0	
R-52	11	1	6,768,253.5	1,836,677.8	1,030.00	5.00	0.00	66	12.0	5.0	
R-53	12	1	6,768,265.5	1,836,899.1	1,039.00	5.00	0.00	66	12.0	5.0	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average	
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average	
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average	
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average	
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average	
		point46	46	6,768,365.0	1,837,698.0	998.70				Average	
		point45	45	6,768,518.0	1,837,862.1	995.60				Average	
		point44	44	6,768,674.5	1,838,022.8	993.30				Average	
		point43	43	6,768,823.5	1,838,166.2	990.10				Average	
		point42	42	6,768,980.5	1,838,313.8	985.20				Average	
		point41	41	6,769,152.5	1,838,462.6	979.50				Average	
		point40	40	6,769,332.5	1,838,617.5	973.70				Average	
		point39	39	6,769,526.0	1,838,779.8	966.90					
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average	
		point114	114	6,769,306.0	1,838,640.9	973.60				Average	
		point113	113	6,769,128.0	1,838,488.2	979.80				Average	
		point112	112	6,768,955.5	1,838,338.1	985.60				Average	
		point111	111	6,768,799.0	1,838,190.2	990.80				Average	
		point110	110	6,768,650.0	1,838,046.2	993.50				Average	
		point109	109	6,768,494.0	1,837,885.0	996.00				Average	
		point108	108	6,768,337.5	1,837,718.9	998.70				Average	
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average	
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average	
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average	
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average	
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average	
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average	
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average	
		point100	100	6,767,004.0	1,836,280.2	999.10				Average	
		point99	99	6,766,841.5	1,836,104.6	992.10				Average	
		point98	98	6,766,703.0	1,835,954.8	984.90				Average	
		point97	97	6,766,530.0	1,835,768.2	976.10				Average	
		point96	96	6,766,361.5	1,835,587.1	967.90				Average	
		point95	95	6,766,157.5	1,835,368.2	963.10				Average	
		point94	94	6,766,012.5	1,835,211.8	963.00				Average	
		point93	93	6,765,850.5	1,835,035.8	962.30				Average	
		point92	92	6,765,661.0	1,834,831.2	961.80				Average	
		point91	91	6,765,487.5	1,834,644.8	961.20				Average	
		point90	90	6,765,305.5	1,834,449.4	960.40				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

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		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00					Average
		point256	256	6,764,014.5	1,835,366.4	953.50					Average
		point255	255	6,764,147.0	1,835,365.4	953.00					Average
		point254	254	6,764,493.5	1,835,375.1	965.50					Average
		point253	253	6,764,793.0	1,835,380.8	979.70					Average
		point252	252	6,765,094.5	1,835,380.8	972.00					Average
		point251	251	6,765,404.5	1,835,380.8	973.00					Average
		point250	250	6,765,697.0	1,835,379.8	977.30					Average
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50					Average
		point421	421	6,766,581.5	1,835,376.4	986.50					Average
		point259	259	6,766,754.0	1,835,377.4	989.00					Average
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100		Average
		point292	292	6,766,902.5	1,835,415.9	992.60					Average
		point291	291	6,766,755.5	1,835,415.0	989.20					Average
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00					Average
		point432	432	6,766,404.5	1,835,412.9	984.70					Average
		point303	303	6,766,337.5	1,835,409.2	985.00					Average
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50					Average
		point312	312	6,765,393.5	1,835,410.8	972.50					Average
		point311	311	6,765,428.5	1,835,587.1	971.00					Average
		point310	310	6,765,470.0	1,835,755.1	970.50					Average
		point309	309	6,765,519.5	1,836,010.5	972.00					Average
		point308	308	6,765,571.5	1,836,274.8	974.00					Average
		point307	307	6,765,596.5	1,836,444.6	976.00					Average
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100		Average
		point403	403	6,765,707.0	1,837,002.5	978.70					Average
		point404	404	6,765,713.5	1,837,015.4	978.00					Average
		point319	319	6,765,725.5	1,837,037.5	977.40					Average
		point318	318	6,765,777.5	1,837,150.5	969.50					Average
		point317	317	6,765,800.5	1,837,183.2	969.50					Average
		point316	316	6,765,829.5	1,837,210.5	969.50					Average
		point315	315	6,765,853.0	1,837,247.2	969.50					Average
		point314	314	6,765,892.0	1,837,349.2	969.50					Average

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		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

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		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

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		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

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		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

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Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40					
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse SB	12.0	point535	535	6,765,862.0	1,835,377.6	979.00				Average
		point536	536	6,765,848.0	1,835,263.8	975.50				Average
		point537	537	6,765,777.5	1,835,155.6	972.50				Average
		point538	538	6,765,702.5	1,835,060.4	970.50				Average
		point539	539	6,765,620.5	1,834,962.1	969.00				Average
		point540	540	6,765,452.0	1,834,758.2	964.50				
La Crosse Avenue (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point550	550	6,765,886.0	1,835,408.9	981.00					
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50					Average
		point37	37	6,763,604.0	1,832,456.6	914.50					Average
		point36	36	6,763,754.5	1,832,654.2	915.10					Average
		point35	35	6,763,905.5	1,832,849.8	916.10					Average
		point34	34	6,764,066.0	1,833,033.0	917.00					Average
		point33	33	6,764,233.5	1,833,215.5	918.50					Average
		point32	32	6,764,413.0	1,833,410.2	925.00					Average
		point31	31	6,764,553.5	1,833,563.0	932.00					Average
		point30	30	6,764,706.0	1,833,725.1	940.00					Average
		point29	29	6,764,871.5	1,833,906.1	949.00					Average
		point28	28	6,765,012.0	1,834,058.8	955.00					Average
		point27	27	6,765,176.5	1,834,233.2	958.90					Average
		point26	26	6,765,345.5	1,834,416.4	960.20					Average
		point25	25	6,765,527.5	1,834,612.0	960.80					Average
		point534	534	6,765,700.5	1,834,797.2	961.60					Average
		point23	23	6,765,891.0	1,835,003.8	962.10					Average
		point22	22	6,766,048.5	1,835,174.6	962.90					Average
		point21	21	6,766,219.5	1,835,357.8	963.20					Average
		point533	533	6,766,311.0	1,835,456.6	965.60					Average
		point20	20	6,766,402.5	1,835,555.5	968.00					Average
		point19	19	6,766,570.5	1,835,735.8	976.00					Average
		point18	18	6,766,741.5	1,835,920.5	985.00					Average
		point17	17	6,766,882.5	1,836,070.9	992.00					Average
		point16	16	6,767,044.5	1,836,249.0	999.00					Average
		point15	15	6,767,225.5	1,836,441.8	1,004.00					Average
		point14	14	6,767,407.5	1,836,639.4	1,006.20					Average
		point13	13	6,767,568.5	1,836,812.4	1,006.40					Average
		point12	12	6,767,719.0	1,836,975.2	1,007.10					Average
		point11	11	6,767,875.5	1,837,142.4	1,007.00					Average
		point10	10	6,768,047.0	1,837,328.5	1,004.90					Average
		point9	9	6,768,198.0	1,837,490.8	1,002.00					Average
		point8	8	6,768,380.0	1,837,686.9	998.40					Average
		point7	7	6,768,531.0	1,837,849.8	995.40					Average
		point6	6	6,768,688.0	1,838,010.4	993.00					Average
		point5	5	6,768,836.5	1,838,152.2	990.00					Average
		point4	4	6,768,994.0	1,838,300.6	985.00					Average
		point3	3	6,769,165.5	1,838,448.9	979.50					Average
		point2	2	6,769,345.5	1,838,603.8	973.60					Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point1	1	6,769,539.0	1,838,765.9	966.40					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50					Average
		point156	156	6,769,292.0	1,838,653.6	973.10					Average
		point155	155	6,769,114.0	1,838,500.6	979.80					Average
		point154	154	6,768,941.5	1,838,350.8	985.80					Average
		point153	153	6,768,787.0	1,838,201.9	991.00					Average
		point152	152	6,768,637.5	1,838,059.1	994.00					Average
		point151	151	6,768,481.5	1,837,899.8	996.50					Average
		point150	150	6,768,324.5	1,837,731.5	998.70					Average
		point149	149	6,768,146.5	1,837,539.2	1,001.90					Average
		point148	148	6,767,994.0	1,837,374.8	1,004.80					Average
		point147	147	6,767,820.5	1,837,188.2	1,006.90					Average
		point146	146	6,767,668.0	1,837,022.6	1,007.10					Average
		point145	145	6,767,517.0	1,836,860.6	1,006.70					Average
		point144	144	6,767,356.0	1,836,686.2	1,006.20					Average
		point532	532	6,767,172.0	1,836,487.9	1,004.00					Average
		point142	142	6,766,991.0	1,836,292.2	998.90					Average
		point141	141	6,766,828.5	1,836,116.8	992.00					Average
		point140	140	6,766,689.5	1,835,966.8	984.50					Average
		point139	139	6,766,517.0	1,835,781.0	976.00					Average
		point138	138	6,766,348.0	1,835,599.4	967.80					Average
		point531	531	6,766,133.0	1,835,368.1	963.30					Average
		point136	136	6,765,999.5	1,835,223.5	962.80					Average
		point135	135	6,765,837.0	1,835,048.1	962.20					Average
		point134	134	6,765,647.5	1,834,843.9	961.70					Average
		point133	133	6,765,474.0	1,834,657.2	960.90					Average
		point132	132	6,765,292.5	1,834,461.8	960.40					Average
		point131	131	6,765,124.5	1,834,280.2	958.70					Average
		point130	130	6,764,960.5	1,834,102.9	954.80					Average
		point129	129	6,764,819.5	1,833,952.1	948.40					Average
		point128	128	6,764,650.5	1,833,769.1	939.80					Average
		point127	127	6,764,500.5	1,833,607.5	932.00					Average
		point126	126	6,764,368.5	1,833,463.8	925.50					Average
		point125	125	6,764,179.0	1,833,259.9	919.50					Average
		point124	124	6,764,013.0	1,833,077.6	918.20					Average
		point123	123	6,763,850.5	1,832,887.6	917.10					Average
		point122	122	6,763,711.5	1,832,715.1	916.30					Average
		point121	121	6,763,546.0	1,832,498.2	915.40					Average
		point120	120	6,763,362.0	1,832,252.2	915.40					

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse NB	12.0	point552	552	6,765,466.0	1,834,747.4	966.00				Average	
		point553	553	6,765,633.5	1,834,955.2	969.00				Average	
		point554	554	6,765,713.0	1,835,053.5	971.00				Average	
		point555	555	6,765,794.0	1,835,144.2	973.00				Average	
		point556	556	6,765,864.5	1,835,255.5	976.00				Average	
		point557	557	6,765,905.5	1,835,377.1	979.00					

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

LSA Associates, Inc.									17 January 2011				
Teak Kim									TNM 2.5				
									Calculated with TNM 2.5				

RESULTS: SOUND LEVELS

PROJECT/CONTRACT:	I-215/Barton Road Interchange												
RUN:	Calibration 06												
BARRIER DESIGN:	INPUT HEIGHTS												
ATMOSPHERICS:	68 deg F, 50% RH												
	Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												

Receiver													
Name	No.	#DUs	Existing	No Barrier	Increase over existing			With Barrier					
			LAeq1h	LAeq1h	Crit'n	Calculated	Crit'n	Type	Calculated	Noise Reduction		Calculated	
				Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated	minus
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	Goal
M-6	1	1	0.0	59.3	66	59.3	12	----	59.3	0.0	5	-5.0	
R-36	2	1	0.0	59.8	66	59.8	12	----	59.8	0.0	5	-5.0	
R-37	3	1	0.0	61.5	66	61.5	12	----	61.5	0.0	5	-5.0	
R-38	4	1	0.0	62.2	66	62.2	12	----	62.2	0.0	5	-5.0	
R-46	5	1	0.0	63.8	66	63.8	12	----	63.8	0.0	5	-5.0	
R-47	6	1	0.0	59.4	66	59.4	12	----	59.4	0.0	5	-5.0	
R-48	7	1	0.0	63.3	66	63.3	12	----	63.3	0.0	5	-5.0	
R-49	8	1	0.0	58.6	66	58.6	12	----	58.6	0.0	5	-5.0	
R-50	9	1	0.0	63.5	66	63.5	12	----	63.5	0.0	5	-5.0	
R-51	10	1	0.0	61.5	66	61.5	12	----	61.5	0.0	5	-5.0	
R-52	11	1	0.0	56.7	66	56.7	12	----	56.7	0.0	5	-5.0	
R-53	12	1	0.0	61.7	66	61.7	12	----	61.7	0.0	5	-5.0	

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	12	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

LSA Associates, Inc.			14 January 2011	
Teak Kim			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:		I-215/Barton Road Interchange		
RUN:		Calibration 06		
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,764,381.5	1,833,279.8	942.00
	2	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,016.5	1,833,967.0	943.00
	6	6,765,092.0	1,834,055.4	945.00
	7	6,765,258.0	1,834,237.6	954.00
	8	6,765,400.0	1,834,395.8	960.00
	9	6,765,541.0	1,834,544.6	964.00
	10	6,765,738.0	1,834,749.4	972.00
Terrain Line6	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	16	6,766,314.0	1,835,368.2	984.00
Terrain Line7	22	6,766,507.0	1,835,493.1	986.00
	23	6,766,573.5	1,835,591.8	987.00
	24	6,766,630.0	1,835,668.0	987.00
	25	6,766,679.5	1,835,723.8	989.00
	26	6,766,758.0	1,835,818.9	990.00
	27	6,766,863.0	1,835,948.1	994.00
	28	6,766,975.0	1,836,081.6	998.00
	29	6,767,078.5	1,836,200.6	1,001.00
	30	6,767,228.0	1,836,360.2	1,004.00
	31	6,767,393.0	1,836,514.6	1,010.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00
	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line15	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00

INPUT: TERRAIN LINES**I-215/Barton Road Interchange**

	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line14	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line11	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
	99	6,766,171.0	1,835,508.8	985.00
	100	6,766,103.5	1,835,420.1	982.00
Terrain Line8	102	6,767,393.0	1,836,514.6	1,010.00
	32	6,767,432.0	1,836,546.8	1,010.00
Terrain Line9	106	6,767,811.0	1,836,956.8	1,015.00
	37	6,767,911.0	1,837,066.2	1,017.00
	38	6,767,981.5	1,837,102.2	1,020.00
Terrain Line5	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,206.5	1,835,144.8	975.00
Terrain Line13	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,149.0	1,836,589.2	992.00
Terrain Line12	125	6,765,595.0	1,835,437.0	980.00
	126	6,765,566.0	1,835,436.2	979.30
	127	6,765,445.5	1,835,448.2	976.50

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011										
Teak Kim		TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:		I-215/Barton Road Interchange										
RUN:		Calibration 06										
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3	point76	76	1224	66	52	64	53	61	0	0	0	0
	point75	75	1224	66	52	64	53	61	0	0	0	0
	point74	74	1224	66	52	64	53	61	0	0	0	0
	point73	73	1224	66	52	64	53	61	0	0	0	0
	point72	72	1224	66	52	64	53	61	0	0	0	0
	point71	71	1224	66	52	64	53	61	0	0	0	0
	point70	70	1224	66	52	64	53	61	0	0	0	0
	point69	69	1224	66	52	64	53	61	0	0	0	0
	point68	68	1224	66	52	64	53	61	0	0	0	0
	point67	67	1224	66	52	64	53	61	0	0	0	0
	point66	66	1224	66	52	64	53	61	0	0	0	0
	point65	65	1224	66	52	64	53	61	0	0	0	0
	point64	64	1224	66	52	64	53	61	0	0	0	0
	point63	63	1224	66	52	64	53	61	0	0	0	0
	point62	62	1224	66	52	64	53	61	0	0	0	0
	point61	61	1224	66	52	64	53	61	0	0	0	0
	point60	60	1224	66	52	64	53	61	0	0	0	0
	point59	59	1224	66	52	64	53	61	0	0	0	0
	point58	58	1224	66	52	64	53	61	0	0	0	0
	point57	57	1224	66	52	64	53	61	0	0	0	0
	point56	56	1224	66	52	64	53	61	0	0	0	0
	point55	55	1224	66	52	64	53	61	0	0	0	0
	point54	54	1224	66	52	64	53	61	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1224	66	52	64	53	61	0	0	0	0
	point52	52	1224	66	52	64	53	61	0	0	0	0
	point51	51	1224	66	52	64	53	61	0	0	0	0
	point50	50	1224	66	52	64	53	61	0	0	0	0
	point49	49	1224	66	52	64	53	61	0	0	0	0
	point48	48	1224	66	52	64	53	61	0	0	0	0
	point47	47	1224	66	52	64	53	61	0	0	0	0
	point46	46	1224	66	52	64	53	61	0	0	0	0
	point45	45	1224	66	52	64	53	61	0	0	0	0
	point44	44	1224	66	52	64	53	61	0	0	0	0
	point43	43	1224	66	52	64	53	61	0	0	0	0
	point42	42	1224	66	52	64	53	61	0	0	0	0
	point41	41	1224	66	52	64	53	61	0	0	0	0
	point40	40	1224	66	52	64	53	61	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1220	66	79	63	61	61	0	0	0	0
	point114	114	1220	66	79	63	61	61	0	0	0	0
	point113	113	1220	66	79	63	61	61	0	0	0	0
	point112	112	1220	66	79	63	61	61	0	0	0	0
	point111	111	1220	66	79	63	61	61	0	0	0	0
	point110	110	1220	66	79	63	61	61	0	0	0	0
	point109	109	1220	66	79	63	61	61	0	0	0	0
	point108	108	1220	66	79	63	61	61	0	0	0	0
	point107	107	1220	66	79	63	61	61	0	0	0	0
	point106	106	1220	66	79	63	61	61	0	0	0	0
	point105	105	1220	66	79	63	61	61	0	0	0	0
	point104	104	1220	66	79	63	61	61	0	0	0	0
	point103	103	1220	66	79	63	61	61	0	0	0	0
	point102	102	1220	66	79	63	61	61	0	0	0	0
	point101	101	1220	66	79	63	61	61	0	0	0	0
	point100	100	1220	66	79	63	61	61	0	0	0	0
	point99	99	1220	66	79	63	61	61	0	0	0	0
	point98	98	1220	66	79	63	61	61	0	0	0	0
	point97	97	1220	66	79	63	61	61	0	0	0	0
	point96	96	1220	66	79	63	61	61	0	0	0	0
	point95	95	1220	66	79	63	61	61	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1220	66	79	63	61	61	0	0	0	0
	point93	93	1220	66	79	63	61	61	0	0	0	0
	point92	92	1220	66	79	63	61	61	0	0	0	0
	point91	91	1220	66	79	63	61	61	0	0	0	0
	point90	90	1220	66	79	63	61	61	0	0	0	0
	point89	89	1220	66	79	63	61	61	0	0	0	0
	point88	88	1220	66	79	63	61	61	0	0	0	0
	point87	87	1220	66	79	63	61	61	0	0	0	0
	point86	86	1220	66	79	63	61	61	0	0	0	0
	point85	85	1220	66	79	63	61	61	0	0	0	0
	point84	84	1220	66	79	63	61	61	0	0	0	0
	point83	83	1220	66	79	63	61	61	0	0	0	0
	point82	82	1220	66	79	63	61	61	0	0	0	0
	point81	81	1220	66	79	63	61	61	0	0	0	0
	point80	80	1220	66	79	63	61	61	0	0	0	0
	point79	79	1220	66	79	63	61	61	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	213	55	25	51	6	48	0	0	0	0
	point200	200	213	55	25	51	6	48	0	0	0	0
	point201	201	213	55	25	51	6	48	0	0	0	0
	point202	202	213	55	25	51	6	48	0	0	0	0
	point203	203	213	55	25	51	6	48	0	0	0	0
	point204	204	213	55	25	51	6	48	0	0	0	0
	point205	205	213	55	25	51	6	48	0	0	0	0
	point206	206	213	55	25	51	6	48	0	0	0	0
	point207	207	213	55	25	51	6	48	0	0	0	0
	point208	208	213	55	25	51	6	48	0	0	0	0
	point209	209	213	55	25	51	6	48	0	0	0	0
	point210	210	213	55	25	51	6	48	0	0	0	0
	point435	435	213	55	25	51	6	48	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	0	0	0	0	0	0	0	0	0	0
	point223	223	0	0	0	0	0	0	0	0	0	0
	point224	224	0	0	0	0	0	0	0	0	0	0
	point225	225	0	0	0	0	0	0	0	0	0	0
	point226	226	0	0	0	0	0	0	0	0	0	0
	point227	227	0	0	0	0	0	0	0	0	0	0
	point228	228	0	0	0	0	0	0	0	0	0	0
	point420	420	0	0	0	0	0	0	0	0	0	0
	point229	229										
Barton EB	point257	257	0	0	0	0	0	0	0	0	0	0
	point256	256	0	0	0	0	0	0	0	0	0	0
	point255	255	0	0	0	0	0	0	0	0	0	0
	point254	254	0	0	0	0	0	0	0	0	0	0
	point253	253	0	0	0	0	0	0	0	0	0	0
	point252	252	0	0	0	0	0	0	0	0	0	0
	point251	251	0	0	0	0	0	0	0	0	0	0
	point250	250	0	0	0	0	0	0	0	0	0	0
	point436	436										
Barton EB	point260	260	0	0	0	0	0	0	0	0	0	0
	point421	421	0	0	0	0	0	0	0	0	0	0
	point259	259	0	0	0	0	0	0	0	0	0	0
	point258	258										
Barton WB	point397	397	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point291	291	0	0	0	0	0	0	0	0	0	0
	point290	290										
Barton WB	point304	304	0	0	0	0	0	0	0	0	0	0
	point432	432	0	0	0	0	0	0	0	0	0	0
	point303	303	0	0	0	0	0	0	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	0	0	0	0	0	0	0	0	0	0
	point312	312	0	0	0	0	0	0	0	0	0	0
	point311	311	0	0	0	0	0	0	0	0	0	0
	point310	310	0	0	0	0	0	0	0	0	0	0
	point309	309	0	0	0	0	0	0	0	0	0	0
	point308	308	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	0	0	0	0	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	0	0	0	0	0	0	0	0	0	0
	point403	403	0	0	0	0	0	0	0	0	0	0
	point404	404	0	0	0	0	0	0	0	0	0	0
	point319	319	0	0	0	0	0	0	0	0	0	0
	point318	318	0	0	0	0	0	0	0	0	0	0
	point317	317	0	0	0	0	0	0	0	0	0	0
	point316	316	0	0	0	0	0	0	0	0	0	0
	point315	315	0	0	0	0	0	0	0	0	0	0
	point314	314	0	0	0	0	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	0	0	0	0	0	0	0	0	0	0
	point406	406	0	0	0	0	0	0	0	0	0	0
	point407	407	0	0	0	0	0	0	0	0	0	0
	point326	326	0	0	0	0	0	0	0	0	0	0
	point325	325	0	0	0	0	0	0	0	0	0	0
	point324	324	0	0	0	0	0	0	0	0	0	0
	point323	323	0	0	0	0	0	0	0	0	0	0
	point322	322	0	0	0	0	0	0	0	0	0	0
	point321	321	0	0	0	0	0	0	0	0	0	0
	point425	425	0	0	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	0	0	0	0	0	0	0	0	0	0
	point332	332	0	0	0	0	0	0	0	0	0	0
	point331	331	0	0	0	0	0	0	0	0	0	0
	point330	330	0	0	0	0	0	0	0	0	0	0
	point329	329	0	0	0	0	0	0	0	0	0	0
	point328	328	0	0	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB	point426	426	0	0	0	0	0	0	0	0	0	0
	point363	363	0	0	0	0	0	0	0	0	0	0
	point364	364	0	0	0	0	0	0	0	0	0	0
	point365	365	0	0	0	0	0	0	0	0	0	0
	point366	366	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	0	0	0	0	0	0	0	0	0	0
	point368	368	0	0	0	0	0	0	0	0	0	0
	point430	430	0	0	0	0	0	0	0	0	0	0
	point369	369										
Michigan NB	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB	point431	431	0	0	0	0	0	0	0	0	0	0
	point374	374	0	0	0	0	0	0	0	0	0	0
	point375	375	0	0	0	0	0	0	0	0	0	0
	point376	376	0	0	0	0	0	0	0	0	0	0
	point377	377	0	0	0	0	0	0	0	0	0	0
	point378	378	0	0	0	0	0	0	0	0	0	0
	point379	379	0	0	0	0	0	0	0	0	0	0
	point380	380										
Michigan SB	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB Ln	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point441	441	0	0	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	0	0	0	0	0	0	0	0	0	0
	point249	249	0	0	0	0	0	0	0	0	0	0
	point248	248	0	0	0	0	0	0	0	0	0	0
	point247	247										
Barton WB	point445	445	0	0	0	0	0	0	0	0	0	0
	point434	434	0	0	0	0	0	0	0	0	0	0
	point301	301	0	0	0	0	0	0	0	0	0	0
	point300	300	0	0	0	0	0	0	0	0	0	0
	point422	422	0	0	0	0	0	0	0	0	0	0
	point423	423	0	0	0	0	0	0	0	0	0	0
	point299	299	0	0	0	0	0	0	0	0	0	0
	point298	298	0	0	0	0	0	0	0	0	0	0
	point297	297	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point294	294										
Barton EB	point398	398	0	0	0	0	0	0	0	0	0	0
	point428	428	0	0	0	0	0	0	0	0	0	0
	point429	429	0	0	0	0	0	0	0	0	0	0
	point268	268	0	0	0	0	0	0	0	0	0	0
	point267	267	0	0	0	0	0	0	0	0	0	0
	point266	266	0	0	0	0	0	0	0	0	0	0
	point265	265	0	0	0	0	0	0	0	0	0	0
	point264	264	0	0	0	0	0	0	0	0	0	0
	point263	263	0	0	0	0	0	0	0	0	0	0
	point262	262	0	0	0	0	0	0	0	0	0	0
	point439	439	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	0	0	0	0	0	0	0	0	0	0
	point269	269										
Barton WB	point280	280	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point438	438	0	0	0	0	0	0	0	0	0	0
	point289	289	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point286	286	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point412	412	0	0	0	0	0	0	0	0	0	0
	point413	413	0	0	0	0	0	0	0	0	0	0
	point283	283	0	0	0	0	0	0	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point462	462	0	0	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	208	66	12	63	20	61	0	0	0	0
	point239	239	208	66	12	63	20	61	0	0	0	0
	point238	238	208	66	12	63	20	61	0	0	0	0
	point237	237	208	66	12	63	20	61	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point236	236	208	66	12	63	20	61	0	0	0	0
	point235	235	208	66	12	63	20	61	0	0	0	0
	point234	234	208	66	12	63	20	61	0	0	0	0
	point233	233	208	66	12	63	20	61	0	0	0	0
	point232	232	208	66	12	63	20	61	0	0	0	0
	point231	231	208	66	12	63	20	61	0	0	0	0
	point450	450	208	66	12	63	20	61	0	0	0	0
	point451	451	208	66	12	63	20	61	0	0	0	0
	point452	452	208	66	12	63	20	61	0	0	0	0
	point453	453	208	66	12	63	20	61	0	0	0	0
	point454	454	208	66	12	63	20	61	0	0	0	0
	point456	456	208	66	12	63	20	61	0	0	0	0
	point7	522	208	66	12	63	20	61	0	0	0	0
	point6	523	208	66	12	63	20	61	0	0	0	0
	point5	524	208	66	12	63	20	61	0	0	0	0
	point4	525	208	66	12	63	20	61	0	0	0	0
	point3	526	208	66	12	63	20	61	0	0	0	0
	point2	527	208	66	12	63	20	61	0	0	0	0
	point1	528										
La Crosse SB	point535	535	0	0	0	0	0	0	0	0	0	0
	point536	536	0	0	0	0	0	0	0	0	0	0
	point537	537	0	0	0	0	0	0	0	0	0	0
	point538	538	0	0	0	0	0	0	0	0	0	0
	point539	539	0	0	0	0	0	0	0	0	0	0
	point540	540										
La Crosse Avenue (northern)	point551	551	91	55	11	51	2	48	0	0	0	0
	point547	547	91	55	11	51	2	48	0	0	0	0
	point548	548	91	55	11	51	2	48	0	0	0	0
	point549	549	91	55	11	51	2	48	0	0	0	0
	point550	550										
I-215 NB Lanes 1 & 2	point38	38	2448	66	104	64	107	61	0	0	0	0
	point37	37	2448	66	104	64	107	61	0	0	0	0
	point36	36	2448	66	104	64	107	61	0	0	0	0
	point35	35	2448	66	104	64	107	61	0	0	0	0
	point34	34	2448	66	104	64	107	61	0	0	0	0
	point33	33	2448	66	104	64	107	61	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point32	32	2448	66	104	64	107	61	0	0	0	0
	point31	31	2448	66	104	64	107	61	0	0	0	0
	point30	30	2448	66	104	64	107	61	0	0	0	0
	point29	29	2448	66	104	64	107	61	0	0	0	0
	point28	28	2448	66	104	64	107	61	0	0	0	0
	point27	27	2448	66	104	64	107	61	0	0	0	0
	point26	26	2448	66	104	64	107	61	0	0	0	0
	point25	25	2448	66	104	64	107	61	0	0	0	0
	point534	534	2448	66	104	64	107	61	0	0	0	0
	point23	23	2448	66	104	64	107	61	0	0	0	0
	point22	22	2448	66	104	64	107	61	0	0	0	0
	point21	21	2448	66	104	64	107	61	0	0	0	0
	point533	533	2448	66	104	64	107	61	0	0	0	0
	point20	20	2448	66	104	64	107	61	0	0	0	0
	point19	19	2448	66	104	64	107	61	0	0	0	0
	point18	18	2448	66	104	64	107	61	0	0	0	0
	point17	17	2448	66	104	64	107	61	0	0	0	0
	point16	16	2448	66	104	64	107	61	0	0	0	0
	point15	15	2448	66	104	64	107	61	0	0	0	0
	point14	14	2448	66	104	64	107	61	0	0	0	0
	point13	13	2448	66	104	64	107	61	0	0	0	0
	point12	12	2448	66	104	64	107	61	0	0	0	0
	point11	11	2448	66	104	64	107	61	0	0	0	0
	point10	10	2448	66	104	64	107	61	0	0	0	0
	point9	9	2448	66	104	64	107	61	0	0	0	0
	point8	8	2448	66	104	64	107	61	0	0	0	0
	point7	7	2448	66	104	64	107	61	0	0	0	0
	point6	6	2448	66	104	64	107	61	0	0	0	0
	point5	5	2448	66	104	64	107	61	0	0	0	0
	point4	4	2448	66	104	64	107	61	0	0	0	0
	point3	3	2448	66	104	64	107	61	0	0	0	0
	point2	2	2448	66	104	64	107	61	0	0	0	0
	point1	1										
I-215 SB Lanes 1 & 2	point157	157	2440	66	157	63	123	61	0	0	0	0
	point156	156	2440	66	157	63	123	61	0	0	0	0
	point155	155	2440	66	157	63	123	61	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point154	154	2440	66	157	63	123	61	0	0	0	0
	point153	153	2440	66	157	63	123	61	0	0	0	0
	point152	152	2440	66	157	63	123	61	0	0	0	0
	point151	151	2440	66	157	63	123	61	0	0	0	0
	point150	150	2440	66	157	63	123	61	0	0	0	0
	point149	149	2440	66	157	63	123	61	0	0	0	0
	point148	148	2440	66	157	63	123	61	0	0	0	0
	point147	147	2440	66	157	63	123	61	0	0	0	0
	point146	146	2440	66	157	63	123	61	0	0	0	0
	point145	145	2440	66	157	63	123	61	0	0	0	0
	point144	144	2440	66	157	63	123	61	0	0	0	0
	point532	532	2440	66	157	63	123	61	0	0	0	0
	point142	142	2440	66	157	63	123	61	0	0	0	0
	point141	141	2440	66	157	63	123	61	0	0	0	0
	point140	140	2440	66	157	63	123	61	0	0	0	0
	point139	139	2440	66	157	63	123	61	0	0	0	0
	point138	138	2440	66	157	63	123	61	0	0	0	0
	point531	531	2440	66	157	63	123	61	0	0	0	0
	point136	136	2440	66	157	63	123	61	0	0	0	0
	point135	135	2440	66	157	63	123	61	0	0	0	0
	point134	134	2440	66	157	63	123	61	0	0	0	0
	point133	133	2440	66	157	63	123	61	0	0	0	0
	point132	132	2440	66	157	63	123	61	0	0	0	0
	point131	131	2440	66	157	63	123	61	0	0	0	0
	point130	130	2440	66	157	63	123	61	0	0	0	0
	point129	129	2440	66	157	63	123	61	0	0	0	0
	point128	128	2440	66	157	63	123	61	0	0	0	0
	point127	127	2440	66	157	63	123	61	0	0	0	0
	point126	126	2440	66	157	63	123	61	0	0	0	0
	point125	125	2440	66	157	63	123	61	0	0	0	0
	point124	124	2440	66	157	63	123	61	0	0	0	0
	point123	123	2440	66	157	63	123	61	0	0	0	0
	point122	122	2440	66	157	63	123	61	0	0	0	0
	point121	121	2440	66	157	63	123	61	0	0	0	0
	point120	120										
La Crosse NB	point552	552	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**I-215/Barton Road Interchange**

	point553	553	0	0	0	0	0	0	0	0	0	0
	point554	554	0	0	0	0	0	0	0	0	0	0
	point555	555	0	0	0	0	0	0	0	0	0	0
	point556	556	0	0	0	0	0	0	0	0	0	0
	point557	557										

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration 07

Barrier									Points										
Name	Type	Height		If Wall	If Berm	Run:Rise		Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment			On	Important
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	ft:ft	\$ per Unit Length			X	Y	Z	at Point	Seg Ht	Perturbs	Struct?		
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0		
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					

INPUT: BARRIERS

I-215/Barton Road Interchange

Existing Wall 1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0		
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0		
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00					
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0		
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0		
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00					
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0		
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0		
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0		
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0		
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00					
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0		
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00					
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0		
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0		
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00					
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0		
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	97	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	96	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	99	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	98	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	101	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	100	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 7	W	0.00	99.99	0.00				0.00	point103	103	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point102	102	6,768,134.5	1,835,263.8	1,022.00	15.00				
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	105	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	104	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	107	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	106	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	111	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	110	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	113	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	112	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	115	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	114	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point117	117	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point116	116	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point119	119	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point118	118	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point121	121	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point120	120	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	123	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	122	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point125	125	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point124	124	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point127	127	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point126	126	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point129	129	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point128	128	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 31	W	0.00	99.99	0.00			0.00	point131	131	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point130	130	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00			0.00	point133	133	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point132	132	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00			0.00	point135	135	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point134	134	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00			0.00	point137	137	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point136	136	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00			0.00	point139	139	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point138	138	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00			0.00	point141	141	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point140	140	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00			0.00	point143	143	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point142	142	6,765,577.0	1,837,024.2	979.30	15.00					
Existing wall 9	W	0.00	99.99	0.00			0.00	point97	149	6,766,517.5	1,835,485.5	986.00	6.00	0.00	0	0		
								point98	150	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
								point99	151	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
								point100	152	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
								point101	153	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
								point102	154	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	155	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	156	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	157	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	158	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point119	159	6,767,311.5	1,836,437.0	1,007.20	6.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point252	160	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
								point118	161	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
								point117	162	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
								point116	163	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point253	164	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
								point115	165	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
								point114	166	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
								point113	167	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
								point217	168	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
								point218	169	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
								point219	170	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
								point220	171	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
								point221	172	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
								point245	173	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
								point246	174	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
								point247	175	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
								point248	176	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
								point249	177	6,767,675.5	1,836,811.1	1,011.00	6.00					
Barrier56	W	0.00	99.99	0.00			0.00	point256	178	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
								point250	179	6,767,715.0	1,836,788.8	1,013.50	5.00					
Barrier57	W	0.00	99.99	0.00			0.00	point255	180	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
								point251	181	6,767,816.0	1,836,961.2	1,016.00	5.00					

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Calibration 07

BARRIER DESIGN: INPUT HEIGHTS

Barriers										
Name	Type	Heights along Barrier			Length	If Wall Area	If Berm Volume	Top Width	Run:Rise	Cost
		Min	Avg	Max						
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$
Existing Wall 5a	W	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777				0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664				0
Existing Wall 4b	W	12.60	12.60	12.60	698	8794				0
Existing Wall 8	W	5.30	5.30	5.30	768	4070				0
Existing Wall 7	W	5.30	5.30	5.30	253	1341				0
Building Barrier 9	W	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	5.00	5.00	5.00	143	716				0
Existing Wall 3	W	5.00	5.00	5.00	160	801				0
Building Barrier 1	W	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	25.00	25.00	25.00	122	3046				0
Building Barrier 4	W	25.00	25.00	25.00	384	9597				0
Building Barrier 5	W	20.00	20.00	20.00	145	2899				0
Building Barrier 6	W	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	15.00	15.00	15.00	145	2168				0
Building Barrier 20	W	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	15.00	15.00	15.00	430	6443				0
Building Barrier 28	W	15.00	15.00	15.00	60	905				0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point27	27	5.30	5.30	5.30	81	427				0
		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 9	W	point44	44	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	point46	46	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	point48	48	5.00	5.00	5.00	78	388				0
		point49	49	5.00	5.00	5.00	65	327				0
Existing Wall 3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 28	W	point97	97	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	point99	99	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	point101	101	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	point103	103	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	point105	105	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	point107	107	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	point111	111	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	point113	113	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	115	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	point117	117	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	point119	119	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	point121	121	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	point123	123	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	point125	125	15.00	15.00	15.00	45	679				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 26	W	point127	127	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	point129	129	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	point131	131	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	point133	133	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	point135	135	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	point137	137	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	point139	139	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	point141	141	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	point143	143	15.00	15.00	15.00	46	687				0
Existing wall 9	W	point97	149	6.00	6.00	6.00	59	351				0
		point98	150	6.00	6.00	6.00	129	771				0
		point99	151	6.00	6.00	6.00	109	654				0
		point100	152	6.00	6.00	6.00	120	720				0
		point101	153	6.00	6.00	6.00	115	687				0
Building Barrier 12	W	point126	155	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	point121	157	6.00	6.00	6.00	54	321				0
		point120	158	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	160	7.00	7.00	7.00	29	201				0
		point118	161	7.00	7.00	7.00	72	507				0
		point117	162	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	164	6.00	6.00	6.00	72	430				0
		point115	165	6.00	6.00	6.00	10	60				0
		point114	166	6.00	6.00	6.00	81	485				0
		point113	167	6.00	6.00	6.00	3	20				0
		point217	168	6.00	6.00	6.00	36	214				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point218	169	6.00	6.00	6.00	9	51				0
		point219	170	6.00	6.00	6.00	27	164				0
		point220	171	6.00	6.00	6.00	3	20				0
		point221	172	6.00	6.00	6.00	8	49				0
		point245	173	6.00	6.00	6.00	81	483				0
		point246	174	6.00	6.00	6.00	124	743				0
		point247	175	6.00	6.00	6.00	44	262				0
		point248	176	6.00	6.00	6.00	72	435				0
Barrier56	W	point256	178	5.00	5.00	5.00	45	227				0
Barrier57	W	point255	180	5.00	5.00	5.00	127	633				0

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.				14 January 2011		
Teak Kim				TNM 2.5		
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:		I-215/Barton Road Interchange				
RUN:		Calibration 07				
Building Row			Points			
Name	Average	Building	No.	Coordinates (ground)		
	Height	Percent		X	Y	Z
	ft	%		ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building11	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

INPUT: RECEIVERS

I-215/Barton Road Interchange

LSA Associates, Inc.							14 January 2011				
Teak Kim							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		I-215/Barton Road Interchange									
RUN:		Calibration 07									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-7	1	1	6,768,484.0	1,837,435.5	1,038.00	5.00	0.00	66	12.0	5.0	
R-54	2	1	6,768,308.5	1,837,023.0	1,039.00	5.00	0.00	66	12.0	5.0	
R-55	3	1	6,768,578.0	1,837,280.8	1,044.00	5.00	0.00	66	12.0	5.0	
R-56	4	1	6,768,479.5	1,837,423.8	1,039.00	5.00	0.00	66	12.0	5.0	
R-57	5	1	6,768,585.0	1,837,458.5	1,040.00	5.00	0.00	66	12.0	5.0	
R-58	6	1	6,768,769.0	1,837,468.8	1,042.00	5.00	0.00	66	12.0	5.0	
R-59	7	1	6,768,859.5	1,837,474.0	1,042.00	5.00	0.00	66	12.0	5.0	

INPUT: ROADWAYS

I-215/Barton Road Interchange

LSA Associates, Inc. Teak Kim				14 January 2011 TNM 2.5							
INPUT: ROADWAYS				I-215/Barton Road Interchange			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT:				Calibration 07							
RUN:											
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
I-215 NB Lane 3	36.0	point76	76	6,763,402.0	1,832,218.9	915.20				Average	
		point75	75	6,763,588.5	1,832,466.2	915.20				Average	
		point74	74	6,763,739.5	1,832,664.8	915.60				Average	
		point73	73	6,763,892.0	1,832,859.2	916.50				Average	
		point72	72	6,764,051.5	1,833,044.8	917.70				Average	
		point71	71	6,764,219.0	1,833,227.5	919.20				Average	
		point70	70	6,764,399.5	1,833,422.5	925.20				Average	
		point69	69	6,764,540.5	1,833,573.9	932.10				Average	
		point68	68	6,764,691.0	1,833,736.1	940.00				Average	
		point67	67	6,764,858.5	1,833,916.9	949.00				Average	
		point66	66	6,764,998.5	1,834,069.9	955.20				Average	
		point65	65	6,765,162.0	1,834,245.8	959.20				Average	
		point64	64	6,765,331.0	1,834,427.2	960.40				Average	
		point63	63	6,765,512.5	1,834,623.5	961.20				Average	
		point62	62	6,765,686.0	1,834,810.2	961.90				Average	
		point61	61	6,765,876.0	1,835,015.1	962.30				Average	
		point60	60	6,766,035.5	1,835,186.2	962.90				Average	
		point59	59	6,766,204.0	1,835,368.2	963.00				Average	
		point58	58	6,766,388.0	1,835,567.0	968.10				Average	
		point57	57	6,766,556.0	1,835,748.0	976.00				Average	
		point56	56	6,766,728.5	1,835,933.0	985.00				Average	
		point55	55	6,766,867.0	1,836,084.2	992.00				Average	
		point54	54	6,767,030.5	1,836,259.8	999.10				Average	
		point53	53	6,767,211.0	1,836,453.8	1,004.30				Average	
		point52	52	6,767,393.5	1,836,651.6	1,006.70				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average	
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average	
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average	
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average	
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average	
		point46	46	6,768,365.0	1,837,698.0	998.70				Average	
		point45	45	6,768,518.0	1,837,862.1	995.60				Average	
		point44	44	6,768,674.5	1,838,022.8	993.30				Average	
		point43	43	6,768,823.5	1,838,166.2	990.10				Average	
		point42	42	6,768,980.5	1,838,313.8	985.20				Average	
		point41	41	6,769,152.5	1,838,462.6	979.50				Average	
		point40	40	6,769,332.5	1,838,617.5	973.70				Average	
		point39	39	6,769,526.0	1,838,779.8	966.90					
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average	
		point114	114	6,769,306.0	1,838,640.9	973.60				Average	
		point113	113	6,769,128.0	1,838,488.2	979.80				Average	
		point112	112	6,768,955.5	1,838,338.1	985.60				Average	
		point111	111	6,768,799.0	1,838,190.2	990.80				Average	
		point110	110	6,768,650.0	1,838,046.2	993.50				Average	
		point109	109	6,768,494.0	1,837,885.0	996.00				Average	
		point108	108	6,768,337.5	1,837,718.9	998.70				Average	
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average	
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average	
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average	
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average	
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average	
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average	
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average	
		point100	100	6,767,004.0	1,836,280.2	999.10				Average	
		point99	99	6,766,841.5	1,836,104.6	992.10				Average	
		point98	98	6,766,703.0	1,835,954.8	984.90				Average	
		point97	97	6,766,530.0	1,835,768.2	976.10				Average	
		point96	96	6,766,361.5	1,835,587.1	967.90				Average	
		point95	95	6,766,157.5	1,835,368.2	963.10				Average	
		point94	94	6,766,012.5	1,835,211.8	963.00				Average	
		point93	93	6,765,850.5	1,835,035.8	962.30				Average	
		point92	92	6,765,661.0	1,834,831.2	961.80				Average	
		point91	91	6,765,487.5	1,834,644.8	961.20				Average	
		point90	90	6,765,305.5	1,834,449.4	960.40				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00				Average	
		point256	256	6,764,014.5	1,835,366.4	953.50				Average	
		point255	255	6,764,147.0	1,835,365.4	953.00				Average	
		point254	254	6,764,493.5	1,835,375.1	965.50				Average	
		point253	253	6,764,793.0	1,835,380.8	979.70				Average	
		point252	252	6,765,094.5	1,835,380.8	972.00				Average	
		point251	251	6,765,404.5	1,835,380.8	973.00				Average	
		point250	250	6,765,697.0	1,835,379.8	977.30				Average	
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50				Average	
		point421	421	6,766,581.5	1,835,376.4	986.50				Average	
		point259	259	6,766,754.0	1,835,377.4	989.00				Average	
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100	Average	
		point292	292	6,766,902.5	1,835,415.9	992.60				Average	
		point291	291	6,766,755.5	1,835,415.0	989.20				Average	
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00				Average	
		point432	432	6,766,404.5	1,835,412.9	984.70				Average	
		point303	303	6,766,337.5	1,835,409.2	985.00				Average	Y
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50				Average	
		point312	312	6,765,393.5	1,835,410.8	972.50				Average	
		point311	311	6,765,428.5	1,835,587.1	971.00				Average	
		point310	310	6,765,470.0	1,835,755.1	970.50				Average	
		point309	309	6,765,519.5	1,836,010.5	972.00				Average	
		point308	308	6,765,571.5	1,836,274.8	974.00				Average	
		point307	307	6,765,596.5	1,836,444.6	976.00				Average	
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100	Average	
		point403	403	6,765,707.0	1,837,002.5	978.70				Average	
		point404	404	6,765,713.5	1,837,015.4	978.00				Average	
		point319	319	6,765,725.5	1,837,037.5	977.40				Average	
		point318	318	6,765,777.5	1,837,150.5	969.50				Average	
		point317	317	6,765,800.5	1,837,183.2	969.50				Average	
		point316	316	6,765,829.5	1,837,210.5	969.50				Average	
		point315	315	6,765,853.0	1,837,247.2	969.50				Average	
		point314	314	6,765,892.0	1,837,349.2	969.50				Average	

INPUT: ROADWAYS

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		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

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		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

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		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

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		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

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Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40					
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

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		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse SB	12.0	point535	535	6,765,862.0	1,835,377.6	979.00				Average
		point536	536	6,765,848.0	1,835,263.8	975.50				Average
		point537	537	6,765,777.5	1,835,155.6	972.50				Average
		point538	538	6,765,702.5	1,835,060.4	970.50				Average
		point539	539	6,765,620.5	1,834,962.1	969.00				Average
		point540	540	6,765,452.0	1,834,758.2	964.50				
La Crosse (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point550	550	6,765,886.0	1,835,408.9	981.00					
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50					Average
		point37	37	6,763,604.0	1,832,456.6	914.50					Average
		point36	36	6,763,754.5	1,832,654.2	915.10					Average
		point35	35	6,763,905.5	1,832,849.8	916.10					Average
		point34	34	6,764,066.0	1,833,033.0	917.00					Average
		point33	33	6,764,233.5	1,833,215.5	918.50					Average
		point32	32	6,764,413.0	1,833,410.2	925.00					Average
		point31	31	6,764,553.5	1,833,563.0	932.00					Average
		point30	30	6,764,706.0	1,833,725.1	940.00					Average
		point29	29	6,764,871.5	1,833,906.1	949.00					Average
		point28	28	6,765,012.0	1,834,058.8	955.00					Average
		point27	27	6,765,176.5	1,834,233.2	958.90					Average
		point26	26	6,765,345.5	1,834,416.4	960.20					Average
		point25	25	6,765,527.5	1,834,612.0	960.80					Average
		point534	534	6,765,700.5	1,834,797.2	961.60					Average
		point23	23	6,765,891.0	1,835,003.8	962.10					Average
		point22	22	6,766,048.5	1,835,174.6	962.90					Average
		point21	21	6,766,219.5	1,835,357.8	963.20					Average
		point533	533	6,766,311.0	1,835,456.6	965.60					Average
		point20	20	6,766,402.5	1,835,555.5	968.00					Average
		point19	19	6,766,570.5	1,835,735.8	976.00					Average
		point18	18	6,766,741.5	1,835,920.5	985.00					Average
		point17	17	6,766,882.5	1,836,070.9	992.00					Average
		point16	16	6,767,044.5	1,836,249.0	999.00					Average
		point15	15	6,767,225.5	1,836,441.8	1,004.00					Average
		point14	14	6,767,407.5	1,836,639.4	1,006.20					Average
		point13	13	6,767,568.5	1,836,812.4	1,006.40					Average
		point12	12	6,767,719.0	1,836,975.2	1,007.10					Average
		point11	11	6,767,875.5	1,837,142.4	1,007.00					Average
		point10	10	6,768,047.0	1,837,328.5	1,004.90					Average
		point9	9	6,768,198.0	1,837,490.8	1,002.00					Average
		point8	8	6,768,380.0	1,837,686.9	998.40					Average
		point7	7	6,768,531.0	1,837,849.8	995.40					Average
		point6	6	6,768,688.0	1,838,010.4	993.00					Average
		point5	5	6,768,836.5	1,838,152.2	990.00					Average
		point4	4	6,768,994.0	1,838,300.6	985.00					Average
		point3	3	6,769,165.5	1,838,448.9	979.50					Average
		point2	2	6,769,345.5	1,838,603.8	973.60					Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point1	1	6,769,539.0	1,838,765.9	966.40					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50					Average
		point156	156	6,769,292.0	1,838,653.6	973.10					Average
		point155	155	6,769,114.0	1,838,500.6	979.80					Average
		point154	154	6,768,941.5	1,838,350.8	985.80					Average
		point153	153	6,768,787.0	1,838,201.9	991.00					Average
		point152	152	6,768,637.5	1,838,059.1	994.00					Average
		point151	151	6,768,481.5	1,837,899.8	996.50					Average
		point150	150	6,768,324.5	1,837,731.5	998.70					Average
		point149	149	6,768,146.5	1,837,539.2	1,001.90					Average
		point148	148	6,767,994.0	1,837,374.8	1,004.80					Average
		point147	147	6,767,820.5	1,837,188.2	1,006.90					Average
		point146	146	6,767,668.0	1,837,022.6	1,007.10					Average
		point145	145	6,767,517.0	1,836,860.6	1,006.70					Average
		point144	144	6,767,356.0	1,836,686.2	1,006.20					Average
		point532	532	6,767,172.0	1,836,487.9	1,004.00					Average
		point142	142	6,766,991.0	1,836,292.2	998.90					Average
		point141	141	6,766,828.5	1,836,116.8	992.00					Average
		point140	140	6,766,689.5	1,835,966.8	984.50					Average
		point139	139	6,766,517.0	1,835,781.0	976.00					Average
		point138	138	6,766,348.0	1,835,599.4	967.80					Average
		point531	531	6,766,133.0	1,835,368.1	963.30					Average
		point136	136	6,765,999.5	1,835,223.5	962.80					Average
		point135	135	6,765,837.0	1,835,048.1	962.20					Average
		point134	134	6,765,647.5	1,834,843.9	961.70					Average
		point133	133	6,765,474.0	1,834,657.2	960.90					Average
		point132	132	6,765,292.5	1,834,461.8	960.40					Average
		point131	131	6,765,124.5	1,834,280.2	958.70					Average
		point130	130	6,764,960.5	1,834,102.9	954.80					Average
		point129	129	6,764,819.5	1,833,952.1	948.40					Average
		point128	128	6,764,650.5	1,833,769.1	939.80					Average
		point127	127	6,764,500.5	1,833,607.5	932.00					Average
		point126	126	6,764,368.5	1,833,463.8	925.50					Average
		point125	125	6,764,179.0	1,833,259.9	919.50					Average
		point124	124	6,764,013.0	1,833,077.6	918.20					Average
		point123	123	6,763,850.5	1,832,887.6	917.10					Average
		point122	122	6,763,711.5	1,832,715.1	916.30					Average
		point121	121	6,763,546.0	1,832,498.2	915.40					Average
		point120	120	6,763,362.0	1,832,252.2	915.40					

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse NB	12.0	point552	552	6,765,466.0	1,834,747.4	966.00				Average	
		point553	553	6,765,633.5	1,834,955.2	969.00				Average	
		point554	554	6,765,713.0	1,835,053.5	971.00				Average	
		point555	555	6,765,794.0	1,835,144.2	973.00				Average	
		point556	556	6,765,864.5	1,835,255.5	976.00				Average	
		point557	557	6,765,905.5	1,835,377.1	979.00					

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

LSA Associates, Inc.									17 January 2011				
Teak Kim									TNM 2.5				
									Calculated with TNM 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		I-215/Barton Road Interchange											
RUN:		Calibration 07											
BARRIER DESIGN:		INPUT HEIGHTS											
ATMOSPHERICS:		68 deg F, 50% RH											
		Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.											

Receiver												
Name	No.	#DUs	Existing	No Barrier	Crit'n	Increase over existing		Type Impact	With Barrier			
			LAeq1h	LAeq1h		Calculated	Crit'n		Calculated	Noise Reduction	Calculated	Goal
				Calculated		Calculated	Sub'l Inc		LAeq1h	Calculated	Goal	Calculated
			dB	dB	dB	dB	dB		dB	dB	dB	dB
M-7	1	1	0.0	59.4	66	59.4	12	----	59.4	0.0	5	-5.0
R-54	2	1	0.0	61.7	66	61.7	12	----	61.7	0.0	5	-5.0
R-55	3	1	0.0	56.5	66	56.5	12	----	56.5	0.0	5	-5.0
R-56	4	1	0.0	59.8	66	59.8	12	----	59.8	0.0	5	-5.0
R-57	5	1	0.0	58.5	66	58.5	12	----	58.5	0.0	5	-5.0
R-58	6	1	0.0	58.5	66	58.5	12	----	58.5	0.0	5	-5.0
R-59	7	1	0.0	58.9	66	58.9	12	----	58.9	0.0	5	-5.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		7	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

LSA Associates, Inc.			14 January 2011	
Teak Kim			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	I-215/Barton Road Interchange			
RUN:	Calibration 07			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,764,381.5	1,833,279.8	942.00
	2	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,016.5	1,833,967.0	943.00
	6	6,765,092.0	1,834,055.4	945.00
	7	6,765,258.0	1,834,237.6	954.00
	8	6,765,400.0	1,834,395.8	960.00
	9	6,765,541.0	1,834,544.6	964.00
	10	6,765,738.0	1,834,749.4	972.00
Terrain Line6	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	16	6,766,314.0	1,835,368.2	984.00
Terrain Line7	22	6,766,507.0	1,835,493.1	986.00
	23	6,766,573.5	1,835,591.8	987.00
	24	6,766,630.0	1,835,668.0	987.00
	25	6,766,679.5	1,835,723.8	989.00
	26	6,766,758.0	1,835,818.9	990.00
	27	6,766,863.0	1,835,948.1	994.00
	28	6,766,975.0	1,836,081.6	998.00
	29	6,767,078.5	1,836,200.6	1,001.00
	30	6,767,228.0	1,836,360.2	1,004.00
	31	6,767,393.0	1,836,514.6	1,010.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00
	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line15	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line14	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line11	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
	99	6,766,171.0	1,835,508.8	985.00
	100	6,766,103.5	1,835,420.1	982.00
Terrain Line8	102	6,767,393.0	1,836,514.6	1,010.00
	32	6,767,432.0	1,836,546.8	1,010.00
Terrain Line9	106	6,767,811.0	1,836,956.8	1,015.00
	37	6,767,911.0	1,837,066.2	1,017.00
	38	6,767,981.5	1,837,102.2	1,020.00
Terrain Line5	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,206.5	1,835,144.8	975.00
Terrain Line13	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,149.0	1,836,589.2	992.00
Terrain Line12	125	6,765,595.0	1,835,437.0	980.00
	126	6,765,566.0	1,835,436.2	979.30
	127	6,765,445.5	1,835,448.2	976.50

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011										
Teak Kim		TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:		I-215/Barton Road Interchange										
RUN:		Calibration 07										
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3	point76	76	1263	65	99	55	81	49	0	0	0	0
	point75	75	1263	65	99	55	81	49	0	0	0	0
	point74	74	1263	65	99	55	81	49	0	0	0	0
	point73	73	1263	65	99	55	81	49	0	0	0	0
	point72	72	1263	65	99	55	81	49	0	0	0	0
	point71	71	1263	65	99	55	81	49	0	0	0	0
	point70	70	1263	65	99	55	81	49	0	0	0	0
	point69	69	1263	65	99	55	81	49	0	0	0	0
	point68	68	1263	65	99	55	81	49	0	0	0	0
	point67	67	1263	65	99	55	81	49	0	0	0	0
	point66	66	1263	65	99	55	81	49	0	0	0	0
	point65	65	1263	65	99	55	81	49	0	0	0	0
	point64	64	1263	65	99	55	81	49	0	0	0	0
	point63	63	1263	65	99	55	81	49	0	0	0	0
	point62	62	1263	65	99	55	81	49	0	0	0	0
	point61	61	1263	65	99	55	81	49	0	0	0	0
	point60	60	1263	65	99	55	81	49	0	0	0	0
	point59	59	1263	65	99	55	81	49	0	0	0	0
	point58	58	1263	65	99	55	81	49	0	0	0	0
	point57	57	1263	65	99	55	81	49	0	0	0	0
	point56	56	1263	65	99	55	81	49	0	0	0	0
	point55	55	1263	65	99	55	81	49	0	0	0	0
	point54	54	1263	65	99	55	81	49	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1263	65	99	55	81	49	0	0	0	0
	point52	52	1263	65	99	55	81	49	0	0	0	0
	point51	51	1263	65	99	55	81	49	0	0	0	0
	point50	50	1263	65	99	55	81	49	0	0	0	0
	point49	49	1263	65	99	55	81	49	0	0	0	0
	point48	48	1263	65	99	55	81	49	0	0	0	0
	point47	47	1263	65	99	55	81	49	0	0	0	0
	point46	46	1263	65	99	55	81	49	0	0	0	0
	point45	45	1263	65	99	55	81	49	0	0	0	0
	point44	44	1263	65	99	55	81	49	0	0	0	0
	point43	43	1263	65	99	55	81	49	0	0	0	0
	point42	42	1263	65	99	55	81	49	0	0	0	0
	point41	41	1263	65	99	55	81	49	0	0	0	0
	point40	40	1263	65	99	55	81	49	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1311	65	52	55	75	49	0	0	0	0
	point114	114	1311	65	52	55	75	49	0	0	0	0
	point113	113	1311	65	52	55	75	49	0	0	0	0
	point112	112	1311	65	52	55	75	49	0	0	0	0
	point111	111	1311	65	52	55	75	49	0	0	0	0
	point110	110	1311	65	52	55	75	49	0	0	0	0
	point109	109	1311	65	52	55	75	49	0	0	0	0
	point108	108	1311	65	52	55	75	49	0	0	0	0
	point107	107	1311	65	52	55	75	49	0	0	0	0
	point106	106	1311	65	52	55	75	49	0	0	0	0
	point105	105	1311	65	52	55	75	49	0	0	0	0
	point104	104	1311	65	52	55	75	49	0	0	0	0
	point103	103	1311	65	52	55	75	49	0	0	0	0
	point102	102	1311	65	52	55	75	49	0	0	0	0
	point101	101	1311	65	52	55	75	49	0	0	0	0
	point100	100	1311	65	52	55	75	49	0	0	0	0
	point99	99	1311	65	52	55	75	49	0	0	0	0
	point98	98	1311	65	52	55	75	49	0	0	0	0
	point97	97	1311	65	52	55	75	49	0	0	0	0
	point96	96	1311	65	52	55	75	49	0	0	0	0
	point95	95	1311	65	52	55	75	49	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1311	65	52	55	75	49	0	0	0	0
	point93	93	1311	65	52	55	75	49	0	0	0	0
	point92	92	1311	65	52	55	75	49	0	0	0	0
	point91	91	1311	65	52	55	75	49	0	0	0	0
	point90	90	1311	65	52	55	75	49	0	0	0	0
	point89	89	1311	65	52	55	75	49	0	0	0	0
	point88	88	1311	65	52	55	75	49	0	0	0	0
	point87	87	1311	65	52	55	75	49	0	0	0	0
	point86	86	1311	65	52	55	75	49	0	0	0	0
	point85	85	1311	65	52	55	75	49	0	0	0	0
	point84	84	1311	65	52	55	75	49	0	0	0	0
	point83	83	1311	65	52	55	75	49	0	0	0	0
	point82	82	1311	65	52	55	75	49	0	0	0	0
	point81	81	1311	65	52	55	75	49	0	0	0	0
	point80	80	1311	65	52	55	75	49	0	0	0	0
	point79	79	1311	65	52	55	75	49	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	296	45	12	45	12	40	0	0	0	0
	point200	200	296	45	12	45	12	40	0	0	0	0
	point201	201	296	45	12	45	12	40	0	0	0	0
	point202	202	296	45	12	45	12	40	0	0	0	0
	point203	203	296	45	12	45	12	40	0	0	0	0
	point204	204	296	45	12	45	12	40	0	0	0	0
	point205	205	296	45	12	45	12	40	0	0	0	0
	point206	206	296	45	12	45	12	40	0	0	0	0
	point207	207	296	45	12	45	12	40	0	0	0	0
	point208	208	207	45	8	45	8	40	0	0	0	0
	point209	209	207	45	8	45	8	40	0	0	0	0
	point210	210	207	45	8	45	8	40	0	0	0	0
	point435	435	207	40	8	40	8	35	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	0	0	0	0	0	0	0	0	0	0
	point223	223	0	0	0	0	0	0	0	0	0	0
	point224	224	0	0	0	0	0	0	0	0	0	0
	point225	225	0	0	0	0	0	0	0	0	0	0
	point226	226	0	0	0	0	0	0	0	0	0	0
	point227	227	0	0	0	0	0	0	0	0	0	0
	point228	228	0	0	0	0	0	0	0	0	0	0
	point420	420	0	0	0	0	0	0	0	0	0	0
	point229	229										
Barton EB	point257	257	0	0	0	0	0	0	0	0	0	0
	point256	256	0	0	0	0	0	0	0	0	0	0
	point255	255	0	0	0	0	0	0	0	0	0	0
	point254	254	0	0	0	0	0	0	0	0	0	0
	point253	253	0	0	0	0	0	0	0	0	0	0
	point252	252	0	0	0	0	0	0	0	0	0	0
	point251	251	0	0	0	0	0	0	0	0	0	0
	point250	250	0	0	0	0	0	0	0	0	0	0
	point436	436										
Barton EB	point260	260	0	0	0	0	0	0	0	0	0	0
	point421	421	0	0	0	0	0	0	0	0	0	0
	point259	259	0	0	0	0	0	0	0	0	0	0
	point258	258										
Barton WB	point397	397	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point291	291	0	0	0	0	0	0	0	0	0	0
	point290	290										
Barton WB	point304	304	0	0	0	0	0	0	0	0	0	0
	point432	432	0	0	0	0	0	0	0	0	0	0
	point303	303	0	0	0	0	0	0	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	0	0	0	0	0	0	0	0	0	0
	point312	312	0	0	0	0	0	0	0	0	0	0
	point311	311	0	0	0	0	0	0	0	0	0	0
	point310	310	0	0	0	0	0	0	0	0	0	0
	point309	309	0	0	0	0	0	0	0	0	0	0
	point308	308	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	0	0	0	0	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	0	0	0	0	0	0	0	0	0	0
	point403	403	0	0	0	0	0	0	0	0	0	0
	point404	404	0	0	0	0	0	0	0	0	0	0
	point319	319	0	0	0	0	0	0	0	0	0	0
	point318	318	0	0	0	0	0	0	0	0	0	0
	point317	317	0	0	0	0	0	0	0	0	0	0
	point316	316	0	0	0	0	0	0	0	0	0	0
	point315	315	0	0	0	0	0	0	0	0	0	0
	point314	314	0	0	0	0	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	0	0	0	0	0	0	0	0	0	0
	point406	406	0	0	0	0	0	0	0	0	0	0
	point407	407	0	0	0	0	0	0	0	0	0	0
	point326	326	0	0	0	0	0	0	0	0	0	0
	point325	325	0	0	0	0	0	0	0	0	0	0
	point324	324	0	0	0	0	0	0	0	0	0	0
	point323	323	0	0	0	0	0	0	0	0	0	0
	point322	322	0	0	0	0	0	0	0	0	0	0
	point321	321	0	0	0	0	0	0	0	0	0	0
	point425	425	0	0	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	0	0	0	0	0	0	0	0	0	0
	point332	332	0	0	0	0	0	0	0	0	0	0
	point331	331	0	0	0	0	0	0	0	0	0	0
	point330	330	0	0	0	0	0	0	0	0	0	0
	point329	329	0	0	0	0	0	0	0	0	0	0
	point328	328	0	0	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB	point426	426	0	0	0	0	0	0	0	0	0	0
	point363	363	0	0	0	0	0	0	0	0	0	0
	point364	364	0	0	0	0	0	0	0	0	0	0
	point365	365	0	0	0	0	0	0	0	0	0	0
	point366	366	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	0	0	0	0	0	0	0	0	0	0
	point368	368	0	0	0	0	0	0	0	0	0	0
	point430	430	0	0	0	0	0	0	0	0	0	0
	point369	369										
Michigan NB	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB	point431	431	0	0	0	0	0	0	0	0	0	0
	point374	374	0	0	0	0	0	0	0	0	0	0
	point375	375	0	0	0	0	0	0	0	0	0	0
	point376	376	0	0	0	0	0	0	0	0	0	0
	point377	377	0	0	0	0	0	0	0	0	0	0
	point378	378	0	0	0	0	0	0	0	0	0	0
	point379	379	0	0	0	0	0	0	0	0	0	0
	point380	380										
Michigan SB	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB Ln	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point441	441	0	0	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	0	0	0	0	0	0	0	0	0	0
	point249	249	0	0	0	0	0	0	0	0	0	0
	point248	248	0	0	0	0	0	0	0	0	0	0
	point247	247										
Barton WB	point445	445	0	0	0	0	0	0	0	0	0	0
	point434	434	0	0	0	0	0	0	0	0	0	0
	point301	301	0	0	0	0	0	0	0	0	0	0
	point300	300	0	0	0	0	0	0	0	0	0	0
	point422	422	0	0	0	0	0	0	0	0	0	0
	point423	423	0	0	0	0	0	0	0	0	0	0
	point299	299	0	0	0	0	0	0	0	0	0	0
	point298	298	0	0	0	0	0	0	0	0	0	0
	point297	297	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point294	294										
Barton EB	point398	398	0	0	0	0	0	0	0	0	0	0
	point428	428	0	0	0	0	0	0	0	0	0	0
	point429	429	0	0	0	0	0	0	0	0	0	0
	point268	268	0	0	0	0	0	0	0	0	0	0
	point267	267	0	0	0	0	0	0	0	0	0	0
	point266	266	0	0	0	0	0	0	0	0	0	0
	point265	265	0	0	0	0	0	0	0	0	0	0
	point264	264	0	0	0	0	0	0	0	0	0	0
	point263	263	0	0	0	0	0	0	0	0	0	0
	point262	262	0	0	0	0	0	0	0	0	0	0
	point439	439	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	0	0	0	0	0	0	0	0	0	0
	point269	269										
Barton WB	point280	280	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point438	438	0	0	0	0	0	0	0	0	0	0
	point289	289	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point286	286	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point412	412	0	0	0	0	0	0	0	0	0	0
	point413	413	0	0	0	0	0	0	0	0	0	0
	point283	283	0	0	0	0	0	0	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point462	462	0	0	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	280	65	12	55	0	0	0	0	0	0
	point239	239	280	65	12	55	0	0	0	0	0	0
	point238	238	280	65	12	55	0	0	0	0	0	0
	point237	237	280	65	12	55	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point236	236	280	65	12	55	0	0	0	0	0	0
	point235	235	280	65	12	55	0	0	0	0	0	0
	point234	234	280	65	12	55	0	0	0	0	0	0
	point233	233	280	65	12	55	0	0	0	0	0	0
	point232	232	280	65	12	55	0	0	0	0	0	0
	point231	231	280	65	12	55	0	0	0	0	0	0
	point450	450	280	65	12	55	0	0	0	0	0	0
	point451	451	280	65	12	55	0	0	0	0	0	0
	point452	452	280	65	12	55	0	0	0	0	0	0
	point453	453	280	65	12	55	0	0	0	0	0	0
	point454	454	280	65	12	55	0	0	0	0	0	0
	point456	456	280	65	12	55	0	0	0	0	0	0
	point7	522	280	65	12	55	0	0	0	0	0	0
	point6	523	280	65	12	55	0	0	0	0	0	0
	point5	524	280	65	12	55	0	0	0	0	0	0
	point4	525	280	65	12	55	0	0	0	0	0	0
	point3	526	280	65	12	55	0	0	0	0	0	0
	point2	527	280	65	12	55	0	0	0	0	0	0
	point1	528										
La Crosse SB	point535	535	0	0	0	0	0	0	0	0	0	0
	point536	536	0	0	0	0	0	0	0	0	0	0
	point537	537	0	0	0	0	0	0	0	0	0	0
	point538	538	0	0	0	0	0	0	0	0	0	0
	point539	539	0	0	0	0	0	0	0	0	0	0
	point540	540										
La Crosse (northern)	point551	551	89	45	4	45	4	40	0	0	0	0
	point547	547	89	45	4	45	4	40	0	0	0	0
	point548	548	89	45	4	45	4	40	0	0	0	0
	point549	549	89	45	4	45	4	40	0	0	0	0
	point550	550										
I-215 NB Lanes 1 & 2	point38	38	2525	65	197	55	163	49	0	0	0	0
	point37	37	2525	65	197	55	163	49	0	0	0	0
	point36	36	2525	65	197	55	163	49	0	0	0	0
	point35	35	2525	65	197	55	163	49	0	0	0	0
	point34	34	2525	65	197	55	163	49	0	0	0	0
	point33	33	2525	65	197	55	163	49	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point32	32	2525	65	197	55	163	49	0	0	0	0
	point31	31	2525	65	197	55	163	49	0	0	0	0
	point30	30	2525	65	197	55	163	49	0	0	0	0
	point29	29	2525	65	197	55	163	49	0	0	0	0
	point28	28	2525	65	197	55	163	49	0	0	0	0
	point27	27	2525	65	197	55	163	49	0	0	0	0
	point26	26	2525	65	197	55	163	49	0	0	0	0
	point25	25	2525	65	197	55	163	49	0	0	0	0
	point534	534	2525	65	197	55	163	49	0	0	0	0
	point23	23	2525	65	197	55	163	49	0	0	0	0
	point22	22	2525	65	197	55	163	49	0	0	0	0
	point21	21	2525	65	197	55	163	49	0	0	0	0
	point533	533	2525	65	197	55	163	49	0	0	0	0
	point20	20	2525	65	197	55	163	49	0	0	0	0
	point19	19	2525	65	197	55	163	49	0	0	0	0
	point18	18	2525	65	197	55	163	49	0	0	0	0
	point17	17	2525	65	197	55	163	49	0	0	0	0
	point16	16	2525	65	197	55	163	49	0	0	0	0
	point15	15	2525	65	197	55	163	49	0	0	0	0
	point14	14	2525	65	197	55	163	49	0	0	0	0
	point13	13	2525	65	197	55	163	49	0	0	0	0
	point12	12	2525	65	197	55	163	49	0	0	0	0
	point11	11	2525	65	197	55	163	49	0	0	0	0
	point10	10	2525	65	197	55	163	49	0	0	0	0
	point9	9	2525	65	197	55	163	49	0	0	0	0
	point8	8	2525	65	197	55	163	49	0	0	0	0
	point7	7	2525	65	197	55	163	49	0	0	0	0
	point6	6	2525	65	197	55	163	49	0	0	0	0
	point5	5	2525	65	197	55	163	49	0	0	0	0
	point4	4	2525	65	197	55	163	49	0	0	0	0
	point3	3	2525	65	197	55	163	49	0	0	0	0
	point2	2	2525	65	197	55	163	49	0	0	0	0
	point1	1										
I-215 SB Lanes 1 & 2	point157	157	2621	65	104	55	149	49	0	0	0	0
	point156	156	2621	65	104	55	149	49	0	0	0	0
	point155	155	2621	65	104	55	149	49	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point154	154	2621	65	104	55	149	49	0	0	0	0
	point153	153	2621	65	104	55	149	49	0	0	0	0
	point152	152	2621	65	104	55	149	49	0	0	0	0
	point151	151	2621	65	104	55	149	49	0	0	0	0
	point150	150	2621	65	104	55	149	49	0	0	0	0
	point149	149	2621	65	104	55	149	49	0	0	0	0
	point148	148	2621	65	104	55	149	49	0	0	0	0
	point147	147	2621	65	104	55	149	49	0	0	0	0
	point146	146	2621	65	104	55	149	49	0	0	0	0
	point145	145	2621	65	104	55	149	49	0	0	0	0
	point144	144	2621	65	104	55	149	49	0	0	0	0
	point532	532	2621	65	104	55	149	49	0	0	0	0
	point142	142	2621	65	104	55	149	49	0	0	0	0
	point141	141	2621	65	104	55	149	49	0	0	0	0
	point140	140	2621	65	104	55	149	49	0	0	0	0
	point139	139	2621	65	104	55	149	49	0	0	0	0
	point138	138	2621	65	104	55	149	49	0	0	0	0
	point531	531	2621	65	104	55	149	49	0	0	0	0
	point136	136	2621	65	104	55	149	49	0	0	0	0
	point135	135	2621	65	104	55	149	49	0	0	0	0
	point134	134	2621	65	104	55	149	49	0	0	0	0
	point133	133	2621	65	104	55	149	49	0	0	0	0
	point132	132	2621	65	104	55	149	49	0	0	0	0
	point131	131	2621	65	104	55	149	49	0	0	0	0
	point130	130	2621	65	104	55	149	49	0	0	0	0
	point129	129	2621	65	104	55	149	49	0	0	0	0
	point128	128	2621	65	104	55	149	49	0	0	0	0
	point127	127	2621	65	104	55	149	49	0	0	0	0
	point126	126	2621	65	104	55	149	49	0	0	0	0
	point125	125	2621	65	104	55	149	49	0	0	0	0
	point124	124	2621	65	104	55	149	49	0	0	0	0
	point123	123	2621	65	104	55	149	49	0	0	0	0
	point122	122	2621	65	104	55	149	49	0	0	0	0
	point121	121	2621	65	104	55	149	49	0	0	0	0
	point120	120										
La Crosse NB	point552	552	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**I-215/Barton Road Interchange**

	point553	553	0	0	0	0	0	0	0	0	0	0
	point554	554	0	0	0	0	0	0	0	0	0	0
	point555	555	0	0	0	0	0	0	0	0	0	0
	point556	556	0	0	0	0	0	0	0	0	0	0
	point557	557										

INPUT: RECEIVERS

I-215/Barton Road Interchange

LSA Associates, Inc.						14 January 2011					
Teak Kim						TNM 2.5					
INPUT: RECEIVERS											
PROJECT/CONTRACT:		I-215/Barton Road Interchange									
RUN:		Calibration 08									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-8	167	1	6,765,946.0	1,835,969.2	980.00	5.00	0.00	66	12.0	5.0	Y
R-60	177	1	6,765,877.0	1,835,854.8	981.00	5.00	0.00	66	12.0	5.0	Y
R-61	178	1	6,765,898.0	1,835,977.1	980.00	5.00	0.00	66	12.0	5.0	Y
R-62	179	1	6,765,910.5	1,836,023.6	980.00	5.00	0.00	66	12.0	5.0	Y
R-63	180	1	6,765,920.0	1,836,066.9	979.00	5.00	0.00	66	12.0	5.0	Y
R-64	181	1	6,765,935.5	1,836,123.2	979.40	5.00	0.00	66	12.0	5.0	Y
R-65	182	1	6,765,941.5	1,836,167.2	979.00	5.00	0.00	66	12.0	5.0	Y
R-66	183	1	6,765,950.5	1,836,226.0	978.50	5.00	0.00	66	12.0	5.0	Y
R-70	184	1	6,765,632.0	1,835,524.8	979.00	5.00	0.00	66	12.0	5.0	Y
R-71	185	1	6,765,656.0	1,835,634.1	978.00	5.00	0.00	66	12.0	5.0	Y
R-72	186	1	6,765,701.0	1,835,772.5	979.00	5.00	0.00	66	12.0	5.0	Y
R-73	187	1	6,765,732.0	1,835,874.2	976.00	5.00	0.00	66	12.0	5.0	Y
R-74	188	1	6,765,718.0	1,835,959.0	976.00	5.00	0.00	66	12.0	5.0	Y
R-75	189	1	6,765,763.5	1,836,088.0	977.00	5.00	0.00	66	12.0	5.0	Y
R-76	190	1	6,765,784.0	1,836,232.2	977.00	5.00	0.00	66	12.0	5.0	Y
R-77	191	1	6,765,563.5	1,835,525.6	977.00	5.00	0.00	66	12.0	5.0	Y
R-78	192	1	6,765,587.0	1,835,635.9	975.00	5.00	0.00	66	12.0	5.0	Y
R-79	193	1	6,765,615.0	1,835,766.5	975.00	5.00	0.00	66	12.0	5.0	Y
R-80	194	1	6,765,658.5	1,835,877.6	975.00	5.00	0.00	66	12.0	5.0	Y
R-81	195	1	6,765,687.0	1,836,088.9	976.00	5.00	0.00	66	12.0	5.0	Y
R-82	196	1	6,765,712.0	1,836,247.5	977.00	5.00	0.00	66	12.0	5.0	Y
R-83	197	1	6,765,489.5	1,835,529.0	975.00	5.00	0.00	66	12.0	5.0	Y

INPUT: RECEIVERS**I-215/Barton Road Interchange**

R-84	198	1	6,765,536.0	1,835,642.6	974.00	5.00	0.00	66	12.0	5.0	Y
R-85	199	1	6,765,573.5	1,835,777.5	974.00	5.00	0.00	66	12.0	5.0	Y
R-86	200	1	6,765,568.5	1,835,881.9	974.00	5.00	0.00	66	12.0	5.0	Y
R-87	201	1	6,765,615.0	1,835,965.9	974.00	5.00	0.00	66	12.0	5.0	Y
R-88	202	1	6,765,612.5	1,836,106.6	974.00	5.00	0.00	66	12.0	5.0	Y
R-89	203	1	6,765,654.0	1,836,264.4	976.00	5.00	0.00	66	12.0	5.0	Y

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011		
Teak Kim		TNM 2.5		
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:		I-215/Barton Road Interchange		
RUN:		Calibration 08		
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,764,381.5	1,833,279.8	942.00
	2	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,016.5	1,833,967.0	943.00
	6	6,765,092.0	1,834,055.4	945.00
	7	6,765,258.0	1,834,237.6	954.00
	8	6,765,400.0	1,834,395.8	960.00
	9	6,765,541.0	1,834,544.6	964.00
	10	6,765,738.0	1,834,749.4	972.00
Terrain Line6	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	16	6,766,314.0	1,835,368.2	984.00
Terrain Line7	22	6,766,507.0	1,835,493.1	986.00
	23	6,766,573.5	1,835,591.8	987.00
	24	6,766,630.0	1,835,668.0	987.00
	25	6,766,679.5	1,835,723.8	989.00
	26	6,766,758.0	1,835,818.9	990.00
	27	6,766,863.0	1,835,948.1	994.00
	28	6,766,975.0	1,836,081.6	998.00
	29	6,767,078.5	1,836,200.6	1,001.00
	30	6,767,228.0	1,836,360.2	1,004.00
	31	6,767,393.0	1,836,514.6	1,010.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00
	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line15	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line14	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line11	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
	99	6,766,171.0	1,835,508.8	985.00
	100	6,766,103.5	1,835,420.1	982.00
Terrain Line8	102	6,767,393.0	1,836,514.6	1,010.00
	32	6,767,431.5	1,836,545.6	1,010.00
Terrain Line9	106	6,767,811.0	1,836,956.8	1,015.00
	37	6,767,911.0	1,837,066.2	1,017.00
	38	6,767,981.5	1,837,102.2	1,020.00
Terrain Line5	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,206.5	1,835,144.8	975.00
Terrain Line13	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,149.0	1,836,589.2	992.00

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Calibration 08

BARRIER DESIGN: INPUT HEIGHTS

Barriers											
Name	Type	Heights along Barrier			Length	If Wall		If Berm		Run:Rise	Cost
		Min	Avg	Max		Area	Volume	Top Width			
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$	
EW # 5	W	5.30	5.30	5.30	252	1336				0	
EW #5	W	6.00	6.00	6.00	963	5777				0	
EW # 4	W	8.00	8.00	8.00	208	1664				0	
EW #4	W	12.60	12.60	12.60	698	8794				0	
Building Barrier 9	W	15.00	15.00	15.00	298	4475				0	
EW #1	W	6.00	6.00	6.00	407	2443				0	
EW #2	W	5.00	5.00	5.00	143	716				0	
EW #3	W	5.00	5.00	5.00	160	801				0	
Building Barrier 1	W	20.00	20.00	20.00	144	2875				0	
Building Barrier 2	W	25.00	25.00	25.00	137	3432				0	
Building Barrier 3	W	25.00	25.00	25.00	122	3046				0	
Building Barrier 4	W	25.00	25.00	25.00	384	9597				0	
Building Barrier 5	W	20.00	20.00	20.00	145	2899				0	
Building Barrier 6	W	15.00	15.00	15.00	79	1178				0	
Building Barrier 18	W	15.00	15.00	15.00	116	1744				0	
Building Barrier 16	W	15.00	15.00	15.00	92	1379				0	
Building Barrier 19	W	15.00	15.00	15.00	145	2168				0	
Building Barrier 20	W	15.00	15.00	15.00	51	770				0	
Building Barrier 17	W	15.00	15.00	15.00	222	3330				0	
Building Barrier 8	W	15.00	15.00	15.00	430	6443				0	
Existing Wall 8	W	5.30	5.30	5.30	768	4070				0	
Existing Wall 7	W	5.30	5.30	5.30	253	1341				0	
Existing Wall 6	W	6.00	6.00	6.00	133	801				0	

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Existing Wall 6	W	5.00	5.00	5.00	45	227				0
Existing Wall 6	W	5.00	5.00	5.00	127	633				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 28	W	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
									Total Cost:	0

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration 08

Barrier									Points										
Name	Type	Height		If Wall	If Berm	Run:Rise		Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment			On	Important
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	ft:ft	\$ per Unit Length			X	Y	Z	at Point	Seg Ht	Perturbs	Struct?		
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
EW # 5	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
EW #5	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00					
EW # 4	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
EW #4	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0		
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60					
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					
EW #1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
EW #2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
EW #3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					

INPUT: BARRIERS

I-215/Barton Road Interchange

Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0			
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0			
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00						
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0			
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0			
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00						
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0			
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0			
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00						
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0			
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00						
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0			
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00						
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0			
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00						
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0			
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0			
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00						
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0			
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00						
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0			
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00						
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0			
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0			
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0			
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0			
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0			
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0			
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00						
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	101	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0			
									point22	102	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0			
									point23	103	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0			
									point24	104	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0			
									point25	105	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0			
									point26	106	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0			
									point27	107	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0			
									point28	108	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0			
									point29	109	6,767,191.5	1,836,819.8	1,004.00	5.30						
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	110	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0			
									point31	111	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0			
									point32	112	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0			
									point33	113	6,767,096.0	1,836,615.8	992.80	5.30						
Existing Wall 6	W	0.00	99.99	0.00				0.00	point121	114	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0			
									point120	115	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0			
									point119	116	6,767,311.5	1,836,437.0	1,007.20	6.00						
Existing Wall 6	W	0.00	99.99	0.00				0.00	point252	117	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0			
									point118	118	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0			
									point117	119	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0			
									point116	120	6,767,383.5	1,836,494.4	1,009.20	7.00						

INPUT: BARRIERS

I-215/Barton Road Interchange

Existing Wall 6	W	0.00	99.99	0.00				0.00	point253	121	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
									point115	122	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
									point114	123	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
									point113	124	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
									point217	125	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
									point218	126	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
									point219	127	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
									point220	128	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
									point221	129	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
									point245	130	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
									point246	131	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
									point247	132	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
									point248	133	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
									point249	134	6,767,675.5	1,836,811.1	1,011.00	6.00					
Existing Wall 6	W	0.00	99.99	0.00				0.00	point256	135	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
									point250	136	6,767,715.0	1,836,788.8	1,013.50	5.00					
Existing Wall 6	W	0.00	99.99	0.00				0.00	point255	137	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
									point251	138	6,767,816.0	1,836,961.2	1,016.00	5.00					
Building Barrier 21	W	0.00	99.99	0.00				0.00	point117	139	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
									point116	140	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00				0.00	point119	141	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
									point118	142	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00				0.00	point121	143	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
									point120	144	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00				0.00	point125	145	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
									point124	146	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00				0.00	point127	160	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
									point126	147	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00				0.00	point129	161	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
									point128	148	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	162	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	149	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	163	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	150	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	164	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	151	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 31	W	0.00	99.99	0.00				0.00	point131	165	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
									point130	152	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00				0.00	point133	166	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
									point132	153	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00				0.00	point135	167	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
									point134	154	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00				0.00	point137	168	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
									point136	155	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00				0.00	point139	169	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
									point138	156	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00				0.00	point141	170	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
									point140	157	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00				0.00	point143	171	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point142	158	6,765,577.0	1,837,024.2	979.30	15.00				
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	175	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	176	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	177	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	178	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	184	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	179	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	185	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	180	6,768,006.5	1,835,555.0	1,015.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	186	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	181	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	187	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	182	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	188	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	183	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 7	W	0.00	99.99	0.00			0.00	point103	189	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		
								point102	190	6,768,134.5	1,835,263.8	1,022.00	15.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011											
Teak Kim		TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		I-215/Barton Road Interchange											
RUN:		Calibration 08											
Roadway	Points												
Name	Name	No.	Segment	Autos		MTrucks		HTrucks		Buses		Motorcycles	
				V	S	V	S	V	S	V	S	V	S
				veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3	point76	76	1423	60	55	47	40	53	0	0	0	0	0
	point75	75	1423	60	55	47	40	53	0	0	0	0	0
	point74	74	1423	60	55	47	40	53	0	0	0	0	0
	point73	73	1423	60	55	47	40	53	0	0	0	0	0
	point72	72	1423	60	55	47	40	53	0	0	0	0	0
	point71	71	1423	60	55	47	40	53	0	0	0	0	0
	point70	70	1423	60	55	47	40	53	0	0	0	0	0
	point69	69	1423	60	55	47	40	53	0	0	0	0	0
	point68	68	1423	60	55	47	40	53	0	0	0	0	0
	point67	67	1423	60	55	47	40	53	0	0	0	0	0
	point66	66	1423	60	55	47	40	53	0	0	0	0	0
	point65	65	1423	60	55	47	40	53	0	0	0	0	0
	point64	64	1423	60	55	47	40	53	0	0	0	0	0
	point63	63	1423	60	55	47	40	53	0	0	0	0	0
	point62	62	1423	60	55	47	40	53	0	0	0	0	0
	point61	61	1423	60	55	47	40	53	0	0	0	0	0
	point60	60	1423	60	55	47	40	53	0	0	0	0	0
	point59	59	1423	60	55	47	40	53	0	0	0	0	0
	point58	58	1423	60	55	47	40	53	0	0	0	0	0
	point57	57	1423	60	55	47	40	53	0	0	0	0	0
	point56	56	1423	60	55	47	40	53	0	0	0	0	0
	point55	55	1423	60	55	47	40	53	0	0	0	0	0
	point54	54	1423	60	55	47	40	53	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1423	60	55	47	40	53	0	0	0	0
	point52	52	1423	60	55	47	40	53	0	0	0	0
	point51	51	1423	60	55	47	40	53	0	0	0	0
	point50	50	1423	60	55	47	40	53	0	0	0	0
	point49	49	1423	60	55	47	40	53	0	0	0	0
	point48	48	1423	60	55	47	40	53	0	0	0	0
	point47	47	1423	60	55	47	40	53	0	0	0	0
	point46	46	1423	60	55	47	40	53	0	0	0	0
	point45	45	1423	60	55	47	40	53	0	0	0	0
	point44	44	1423	60	55	47	40	53	0	0	0	0
	point43	43	1423	60	55	47	40	53	0	0	0	0
	point42	42	1423	60	55	47	40	53	0	0	0	0
	point41	41	1423	60	55	47	40	53	0	0	0	0
	point40	40	1423	60	55	47	40	53	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1379	60	64	47	44	53	0	0	0	0
	point114	114	1379	60	64	47	44	53	0	0	0	0
	point113	113	1379	60	64	47	44	53	0	0	0	0
	point112	112	1379	60	64	47	44	53	0	0	0	0
	point111	111	1379	60	64	47	44	53	0	0	0	0
	point110	110	1379	60	64	47	44	53	0	0	0	0
	point109	109	1379	60	64	47	44	53	0	0	0	0
	point108	108	1379	60	64	47	44	53	0	0	0	0
	point107	107	1379	60	64	47	44	53	0	0	0	0
	point106	106	1379	60	64	47	44	53	0	0	0	0
	point105	105	1379	60	64	47	44	53	0	0	0	0
	point104	104	1379	60	64	47	44	53	0	0	0	0
	point103	103	1379	60	64	47	44	53	0	0	0	0
	point102	102	1379	60	64	47	44	53	0	0	0	0
	point101	101	1379	60	64	47	44	53	0	0	0	0
	point100	100	1379	60	64	47	44	53	0	0	0	0
	point99	99	1379	60	64	47	44	53	0	0	0	0
	point98	98	1379	60	64	47	44	53	0	0	0	0
	point97	97	1379	60	64	47	44	53	0	0	0	0
	point96	96	1379	60	64	47	44	53	0	0	0	0
	point95	95	1379	60	64	47	44	53	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1379	60	64	47	44	53	0	0	0	0
	point93	93	1379	60	64	47	44	53	0	0	0	0
	point92	92	1379	60	64	47	44	53	0	0	0	0
	point91	91	1379	60	64	47	44	53	0	0	0	0
	point90	90	1379	60	64	47	44	53	0	0	0	0
	point89	89	1379	60	64	47	44	53	0	0	0	0
	point88	88	1379	60	64	47	44	53	0	0	0	0
	point87	87	1379	60	64	47	44	53	0	0	0	0
	point86	86	1379	60	64	47	44	53	0	0	0	0
	point85	85	1379	60	64	47	44	53	0	0	0	0
	point84	84	1379	60	64	47	44	53	0	0	0	0
	point83	83	1379	60	64	47	44	53	0	0	0	0
	point82	82	1379	60	64	47	44	53	0	0	0	0
	point81	81	1379	60	64	47	44	53	0	0	0	0
	point80	80	1379	60	64	47	44	53	0	0	0	0
	point79	79	1379	60	64	47	44	53	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	360	45	20	45	8	40	0	0	0	0
	point200	200	360	45	20	45	8	40	0	0	0	0
	point201	201	360	45	20	45	8	40	0	0	0	0
	point202	202	360	45	20	45	8	40	0	0	0	0
	point203	203	360	45	20	45	8	40	0	0	0	0
	point204	204	360	45	20	45	8	40	0	0	0	0
	point205	205	360	45	20	45	8	40	0	0	0	0
	point206	206	360	45	20	45	8	40	0	0	0	0
	point207	207	360	45	20	45	8	40	0	0	0	0
	point208	208	252	45	14	45	6	40	0	0	0	0
	point209	209	252	45	14	45	6	40	0	0	0	0
	point210	210	252	45	14	45	6	40	0	0	0	0
	point435	435	252	40	14	40	6	35	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	0	0	0	0	0	0	0	0	0	0
	point223	223	0	0	0	0	0	0	0	0	0	0
	point224	224	0	0	0	0	0	0	0	0	0	0
	point225	225	0	0	0	0	0	0	0	0	0	0
	point226	226	0	0	0	0	0	0	0	0	0	0
	point227	227	0	0	0	0	0	0	0	0	0	0
	point228	228	0	0	0	0	0	0	0	0	0	0
	point420	420	0	0	0	0	0	0	0	0	0	0
	point229	229										
Barton EB	point257	257	292	40	12	40	4	35	0	0	0	0
	point256	256	292	40	12	40	4	35	0	0	0	0
	point255	255	292	40	12	40	4	35	0	0	0	0
	point254	254	292	40	12	40	4	35	0	0	0	0
	point253	253	292	40	12	40	4	35	0	0	0	0
	point252	252	292	40	12	40	4	35	0	0	0	0
	point251	251	292	40	12	40	4	35	0	0	0	0
	point250	250	292	40	12	40	4	35	0	0	0	0
	point436	436										
Barton EB	point260	260	292	40	12	40	4	35	0	0	0	0
	point421	421	292	40	12	40	4	35	0	0	0	0
	point259	259	292	40	12	40	4	35	0	0	0	0
	point258	258										
Barton WB	point397	397	292	40	12	40	4	35	0	0	0	0
	point292	292	292	40	12	40	4	35	0	0	0	0
	point291	291	292	40	12	40	4	35	0	0	0	0
	point290	290										
Barton WB	point304	304	292	40	12	40	4	35	0	0	0	0
	point432	432	292	40	12	40	4	35	0	0	0	0
	point303	303	292	40	12	40	4	35	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	0	0	0	0	0	0	0	0	0	0
	point312	312	0	0	0	0	0	0	0	0	0	0
	point311	311	0	0	0	0	0	0	0	0	0	0
	point310	310	0	0	0	0	0	0	0	0	0	0
	point309	309	0	0	0	0	0	0	0	0	0	0
	point308	308	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	0	0	0	0	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	0	0	0	0	0	0	0	0	0	0
	point403	403	0	0	0	0	0	0	0	0	0	0
	point404	404	0	0	0	0	0	0	0	0	0	0
	point319	319	0	0	0	0	0	0	0	0	0	0
	point318	318	0	0	0	0	0	0	0	0	0	0
	point317	317	0	0	0	0	0	0	0	0	0	0
	point316	316	0	0	0	0	0	0	0	0	0	0
	point315	315	0	0	0	0	0	0	0	0	0	0
	point314	314	0	0	0	0	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	0	0	0	0	0	0	0	0	0	0
	point406	406	0	0	0	0	0	0	0	0	0	0
	point407	407	0	0	0	0	0	0	0	0	0	0
	point326	326	0	0	0	0	0	0	0	0	0	0
	point325	325	0	0	0	0	0	0	0	0	0	0
	point324	324	0	0	0	0	0	0	0	0	0	0
	point323	323	0	0	0	0	0	0	0	0	0	0
	point322	322	0	0	0	0	0	0	0	0	0	0
	point321	321	0	0	0	0	0	0	0	0	0	0
	point425	425	0	0	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	0	0	0	0	0	0	0	0	0	0
	point332	332	0	0	0	0	0	0	0	0	0	0
	point331	331	0	0	0	0	0	0	0	0	0	0
	point330	330	0	0	0	0	0	0	0	0	0	0
	point329	329	0	0	0	0	0	0	0	0	0	0
	point328	328	0	0	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB Ln 1a	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB Ln 1b	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB Ln 1c	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB	point426	426	0	0	0	0	0	0	0	0	0	0
	point363	363	0	0	0	0	0	0	0	0	0	0
	point364	364	0	0	0	0	0	0	0	0	0	0
	point365	365	0	0	0	0	0	0	0	0	0	0
	point366	366	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	0	0	0	0	0	0	0	0	0	0
	point368	368	0	0	0	0	0	0	0	0	0	0
	point430	430	0	0	0	0	0	0	0	0	0	0
	point369	369										
Michigan NB Ln 1b	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB	point431	431	0	0	0	0	0	0	0	0	0	0
	point374	374	0	0	0	0	0	0	0	0	0	0
	point375	375	0	0	0	0	0	0	0	0	0	0
	point376	376	0	0	0	0	0	0	0	0	0	0
	point377	377	0	0	0	0	0	0	0	0	0	0
	point378	378	0	0	0	0	0	0	0	0	0	0
	point379	379	0	0	0	0	0	0	0	0	0	0
	point380	380										
Michigan SB Ln 1b	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB Ln 1a	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB Ln 1b	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB Ln 1c	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point441	441	0	0	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	292	40	12	40	4	35	0	0	0	0
	point249	249	292	40	12	40	4	35	0	0	0	0
	point248	248	292	40	12	40	4	35	0	0	0	0
	point247	247										
Barton WB	point445	445	292	40	12	40	4	35	0	0	0	0
	point434	434	292	40	12	40	4	35	0	0	0	0
	point301	301	292	40	12	40	4	35	0	0	0	0
	point300	300	292	40	12	40	4	35	0	0	0	0
	point422	422	292	40	12	40	4	35	0	0	0	0
	point423	423	292	40	12	40	4	35	0	0	0	0
	point299	299	292	40	12	40	4	35	0	0	0	0
	point298	298	292	40	12	40	4	35	0	0	0	0
	point297	297	292	40	12	40	4	35	0	0	0	0
	point296	296	292	40	12	40	4	35	0	0	0	0
	point295	295	292	40	12	40	4	35	0	0	0	0
	point294	294										
Barton EB	point398	398	292	40	12	40	4	35	0	0	0	0
	point428	428	292	40	12	40	4	35	0	0	0	0
	point429	429	292	40	12	40	4	35	0	0	0	0
	point268	268	292	40	12	40	4	35	0	0	0	0
	point267	267	292	40	12	40	4	35	0	0	0	0
	point266	266	292	40	12	40	4	35	0	0	0	0
	point265	265	292	40	12	40	4	35	0	0	0	0
	point264	264	292	40	12	40	4	35	0	0	0	0
	point263	263	292	40	12	40	4	35	0	0	0	0
	point262	262	292	40	12	40	4	35	0	0	0	0
	point439	439	292	40	12	40	4	35	0	0	0	0
	point273	273	292	40	12	40	4	35	0	0	0	0
	point272	272	292	40	12	40	4	35	0	0	0	0
	point271	271	292	40	12	40	4	35	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	292	40	12	40	4	35	0	0	0	0
	point269	269										
Barton WB	point280	280	292	40	12	40	4	35	0	0	0	0
	point279	279	292	40	12	40	4	35	0	0	0	0
	point278	278	292	40	12	40	4	35	0	0	0	0
	point277	277	292	40	12	40	4	35	0	0	0	0
	point438	438	292	40	12	40	4	35	0	0	0	0
	point289	289	292	40	12	40	4	35	0	0	0	0
	point288	288	292	40	12	40	4	35	0	0	0	0
	point287	287	292	40	12	40	4	35	0	0	0	0
	point286	286	292	40	12	40	4	35	0	0	0	0
	point285	285	292	40	12	40	4	35	0	0	0	0
	point284	284	292	40	12	40	4	35	0	0	0	0
	point412	412	292	40	12	40	4	35	0	0	0	0
	point413	413	292	40	12	40	4	35	0	0	0	0
	point283	283	292	40	12	40	4	35	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point462	462	0	0	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point530	530	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point473	473	0	0	0	0	0	0	0	0	0	0
	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	332	60	8	47	8	53	0	0	0	0
	point239	239	332	60	8	47	8	53	0	0	0	0
	point238	238	332	60	8	47	8	53	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point237	237	332	60	8	47	8	53	0	0	0	0
	point236	236	332	60	8	47	8	53	0	0	0	0
	point235	235	332	60	8	47	8	53	0	0	0	0
	point234	234	332	60	8	47	8	53	0	0	0	0
	point233	233	332	60	8	47	8	53	0	0	0	0
	point232	232	332	60	8	47	8	53	0	0	0	0
	point231	231	332	60	8	47	8	53	0	0	0	0
	point450	450	332	60	8	47	8	53	0	0	0	0
	point451	451	332	60	8	47	8	53	0	0	0	0
	point452	452	332	60	8	47	8	53	0	0	0	0
	point453	453	332	60	8	47	8	53	0	0	0	0
	point454	454	332	60	8	47	8	53	0	0	0	0
	point456	456	332	60	8	47	8	53	0	0	0	0
	point7	522	332	60	8	47	8	53	0	0	0	0
	point6	523	332	60	8	47	8	53	0	0	0	0
	point5	524	332	60	8	47	8	53	0	0	0	0
	point4	525	332	60	8	47	8	53	0	0	0	0
	point3	526	332	60	8	47	8	53	0	0	0	0
	point2	527	332	60	8	47	8	53	0	0	0	0
	point1	528										
I-215 NB Lanes 1 & 2	point38	38	2845	60	109	47	80	53	0	0	0	0
	point37	37	2845	60	109	47	80	53	0	0	0	0
	point36	36	2845	60	109	47	80	53	0	0	0	0
	point35	35	2845	60	109	47	80	53	0	0	0	0
	point34	34	2845	60	109	47	80	53	0	0	0	0
	point33	33	2845	60	109	47	80	53	0	0	0	0
	point32	32	2845	60	109	47	80	53	0	0	0	0
	point31	31	2845	60	109	47	80	53	0	0	0	0
	point30	30	2845	60	109	47	80	53	0	0	0	0
	point29	29	2845	60	109	47	80	53	0	0	0	0
	point28	28	2845	60	109	47	80	53	0	0	0	0
	point27	27	2845	60	109	47	80	53	0	0	0	0
	point26	26	2845	60	109	47	80	53	0	0	0	0
	point25	25	2845	60	109	47	80	53	0	0	0	0
	point24	24	2845	60	109	47	80	53	0	0	0	0
	point23	23	2845	60	109	47	80	53	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point22	22	2845	60	109	47	80	53	0	0	0	0
	point532	532	2845	60	109	47	80	53	0	0	0	0
	point20	20	2845	60	109	47	80	53	0	0	0	0
	point19	19	2845	60	109	47	80	53	0	0	0	0
	point18	18	2845	60	109	47	80	53	0	0	0	0
	point17	17	2845	60	109	47	80	53	0	0	0	0
	point16	16	2845	60	109	47	80	53	0	0	0	0
	point15	15	2845	60	109	47	80	53	0	0	0	0
	point14	14	2845	60	109	47	80	53	0	0	0	0
	point13	13	2845	60	109	47	80	53	0	0	0	0
	point12	12	2845	60	109	47	80	53	0	0	0	0
	point11	11	2845	60	109	47	80	53	0	0	0	0
	point10	10	2845	60	109	47	80	53	0	0	0	0
	point9	9	2845	60	109	47	80	53	0	0	0	0
	point8	8	2845	60	109	47	80	53	0	0	0	0
	point7	7	2845	60	109	47	80	53	0	0	0	0
	point6	6	2845	60	109	47	80	53	0	0	0	0
	point5	5	2845	60	109	47	80	53	0	0	0	0
	point4	4	2845	60	109	47	80	53	0	0	0	0
	point3	3	2845	60	109	47	80	53	0	0	0	0
	point2	2	2845	60	109	47	80	53	0	0	0	0
	point1	1										
La Crosse (northern)	point551	534	108	45	6	45	2	40	0	0	0	0
	point547	535	108	45	6	45	2	40	0	0	0	0
	point548	536	108	45	6	45	2	40	0	0	0	0
	point549	537	108	45	6	45	2	40	0	0	0	0
	point550	538										
La Crosse SB	point535	539	0	0	0	0	0	0	0	0	0	0
	point536	540	0	0	0	0	0	0	0	0	0	0
	point537	541	0	0	0	0	0	0	0	0	0	0
	point538	542	0	0	0	0	0	0	0	0	0	0
	point539	543	0	0	0	0	0	0	0	0	0	0
	point540	544										
I-215 SB Lanes 1 & 2	point157	157	2757	60	128	47	88	53	0	0	0	0
	point156	156	2757	60	128	47	88	53	0	0	0	0
	point155	155	2757	60	128	47	88	53	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point154	154	2757	60	128	47	88	53	0	0	0	0
	point153	153	2757	60	128	47	88	53	0	0	0	0
	point152	152	2757	60	128	47	88	53	0	0	0	0
	point151	151	2757	60	128	47	88	53	0	0	0	0
	point150	150	2757	60	128	47	88	53	0	0	0	0
	point149	149	2757	60	128	47	88	53	0	0	0	0
	point148	148	2757	60	128	47	88	53	0	0	0	0
	point147	147	2757	60	128	47	88	53	0	0	0	0
	point146	146	2757	60	128	47	88	53	0	0	0	0
	point145	145	2757	60	128	47	88	53	0	0	0	0
	point144	144	2757	60	128	47	88	53	0	0	0	0
	point533	533	2757	60	128	47	88	53	0	0	0	0
	point142	142	2757	60	128	47	88	53	0	0	0	0
	point141	141	2757	60	128	47	88	53	0	0	0	0
	point140	140	2757	60	128	47	88	53	0	0	0	0
	point139	139	2757	60	128	47	88	53	0	0	0	0
	point138	138	2757	60	128	47	88	53	0	0	0	0
	point531	531	2757	60	128	47	88	53	0	0	0	0
	point136	136	2757	60	128	47	88	53	0	0	0	0
	point135	135	2757	60	128	47	88	53	0	0	0	0
	point134	134	2757	60	128	47	88	53	0	0	0	0
	point133	133	2757	60	128	47	88	53	0	0	0	0
	point132	132	2757	60	128	47	88	53	0	0	0	0
	point131	131	2757	60	128	47	88	53	0	0	0	0
	point130	130	2757	60	128	47	88	53	0	0	0	0
	point129	129	2757	60	128	47	88	53	0	0	0	0
	point128	128	2757	60	128	47	88	53	0	0	0	0
	point127	127	2757	60	128	47	88	53	0	0	0	0
	point126	126	2757	60	128	47	88	53	0	0	0	0
	point125	125	2757	60	128	47	88	53	0	0	0	0
	point124	124	2757	60	128	47	88	53	0	0	0	0
	point123	123	2757	60	128	47	88	53	0	0	0	0
	point122	122	2757	60	128	47	88	53	0	0	0	0
	point121	121	2757	60	128	47	88	53	0	0	0	0
	point120	120										
La Crosse NB	point545	545	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**I-215/Barton Road Interchange**

	point546	546	0	0	0	0	0	0	0	0	0	0
	point547	547	0	0	0	0	0	0	0	0	0	0
	point548	548	0	0	0	0	0	0	0	0	0	0
	point549	549	0	0	0	0	0	0	0	0	0	0
	point550	550										

INPUT: ROADWAYS

I-215/Barton Road Interchange

LSA Associates, Inc. Teak Kim				14 January 2011 TNM 2.5							
INPUT: ROADWAYS				I-215/Barton Road Interchange			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT:				Calibration 08							
RUN:											
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
I-215 NB Lane 3	36.0	point76	76	6,763,402.0	1,832,218.9	915.20				Average	
		point75	75	6,763,588.5	1,832,466.2	915.20				Average	
		point74	74	6,763,739.5	1,832,664.8	915.60				Average	
		point73	73	6,763,892.0	1,832,859.2	916.50				Average	
		point72	72	6,764,051.5	1,833,044.8	917.70				Average	
		point71	71	6,764,219.0	1,833,227.5	919.20				Average	
		point70	70	6,764,399.5	1,833,422.5	925.20				Average	
		point69	69	6,764,540.5	1,833,573.9	932.10				Average	
		point68	68	6,764,691.0	1,833,736.1	940.00				Average	
		point67	67	6,764,858.5	1,833,916.9	949.00				Average	
		point66	66	6,764,998.5	1,834,069.9	955.20				Average	
		point65	65	6,765,162.0	1,834,245.8	959.20				Average	
		point64	64	6,765,331.0	1,834,427.2	960.40				Average	
		point63	63	6,765,512.5	1,834,623.5	961.20				Average	
		point62	62	6,765,686.0	1,834,810.2	961.90				Average	
		point61	61	6,765,876.0	1,835,015.1	962.30				Average	
		point60	60	6,766,035.5	1,835,186.2	962.90				Average	
		point59	59	6,766,204.0	1,835,368.2	963.00				Average	
		point58	58	6,766,388.0	1,835,567.0	968.10				Average	
		point57	57	6,766,556.0	1,835,748.0	976.00				Average	
		point56	56	6,766,728.5	1,835,933.0	985.00				Average	
		point55	55	6,766,867.0	1,836,084.2	992.00				Average	
		point54	54	6,767,030.5	1,836,259.8	999.10				Average	
		point53	53	6,767,211.0	1,836,453.8	1,004.30				Average	
		point52	52	6,767,393.5	1,836,651.6	1,006.70				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average	
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average	
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average	
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average	
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average	
		point46	46	6,768,365.0	1,837,698.0	998.70				Average	
		point45	45	6,768,518.0	1,837,862.1	995.60				Average	
		point44	44	6,768,674.5	1,838,022.8	993.30				Average	
		point43	43	6,768,823.5	1,838,166.2	990.10				Average	
		point42	42	6,768,980.5	1,838,313.8	985.20				Average	
		point41	41	6,769,152.5	1,838,462.6	979.50				Average	
		point40	40	6,769,332.5	1,838,617.5	973.70				Average	
		point39	39	6,769,526.0	1,838,779.8	966.90					
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average	
		point114	114	6,769,306.0	1,838,640.9	973.60				Average	
		point113	113	6,769,128.0	1,838,488.2	979.80				Average	
		point112	112	6,768,955.5	1,838,338.1	985.60				Average	
		point111	111	6,768,799.0	1,838,190.2	990.80				Average	
		point110	110	6,768,650.0	1,838,046.2	993.50				Average	
		point109	109	6,768,494.0	1,837,885.0	996.00				Average	
		point108	108	6,768,337.5	1,837,718.9	998.70				Average	
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average	
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average	
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average	
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average	
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average	
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average	
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average	
		point100	100	6,767,004.0	1,836,280.2	999.10				Average	
		point99	99	6,766,841.5	1,836,104.6	992.10				Average	
		point98	98	6,766,703.0	1,835,954.8	984.90				Average	
		point97	97	6,766,530.0	1,835,768.2	976.10				Average	
		point96	96	6,766,361.5	1,835,587.1	967.90				Average	
		point95	95	6,766,157.5	1,835,368.2	963.10				Average	
		point94	94	6,766,012.5	1,835,211.8	963.00				Average	
		point93	93	6,765,850.5	1,835,035.8	962.30				Average	
		point92	92	6,765,661.0	1,834,831.2	961.80				Average	
		point91	91	6,765,487.5	1,834,644.8	961.20				Average	
		point90	90	6,765,305.5	1,834,449.4	960.40				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

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		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00				Average	
		point256	256	6,764,014.5	1,835,366.4	953.50				Average	
		point255	255	6,764,147.0	1,835,365.4	953.00				Average	
		point254	254	6,764,493.5	1,835,375.1	965.50				Average	
		point253	253	6,764,793.0	1,835,380.8	979.70				Average	
		point252	252	6,765,094.5	1,835,380.8	972.00				Average	
		point251	251	6,765,404.5	1,835,380.8	973.00				Average	
		point250	250	6,765,697.0	1,835,379.8	977.30				Average	
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50				Average	
		point421	421	6,766,581.5	1,835,376.4	986.50				Average	
		point259	259	6,766,754.0	1,835,377.4	989.00				Average	
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100	Average	
		point292	292	6,766,902.5	1,835,415.9	992.60				Average	
		point291	291	6,766,755.5	1,835,415.0	989.20				Average	
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00				Average	
		point432	432	6,766,404.5	1,835,412.9	984.70				Average	
		point303	303	6,766,337.5	1,835,409.2	985.00				Average	Y
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50				Average	
		point312	312	6,765,393.5	1,835,410.8	972.50				Average	
		point311	311	6,765,428.5	1,835,587.1	971.00				Average	
		point310	310	6,765,470.0	1,835,755.1	970.50				Average	
		point309	309	6,765,519.5	1,836,010.5	972.00				Average	
		point308	308	6,765,571.5	1,836,274.8	974.00				Average	
		point307	307	6,765,596.5	1,836,444.6	976.00				Average	
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100	Average	
		point403	403	6,765,707.0	1,837,002.5	978.70				Average	
		point404	404	6,765,713.5	1,837,015.4	978.00				Average	
		point319	319	6,765,725.5	1,837,037.5	977.40				Average	
		point318	318	6,765,777.5	1,837,150.5	969.50				Average	
		point317	317	6,765,800.5	1,837,183.2	969.50				Average	
		point316	316	6,765,829.5	1,837,210.5	969.50				Average	
		point315	315	6,765,853.0	1,837,247.2	969.50				Average	
		point314	314	6,765,892.0	1,837,349.2	969.50				Average	

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		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB Ln 1a	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB Ln 1b	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB Ln 1c	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

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		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB Ln 1b	24.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB Ln 1b	24.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

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		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln 1a	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB Ln 1b	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB Ln 1c	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

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		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

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Barton Median	24.0	point485	485	6,765,406.0	1,835,392.5	973.00				Average	
		point530	530	6,765,695.0	1,835,392.4	977.40				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40					
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point126	505	6,764,365.0	1,833,467.0	925.50				Average
		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50				Average
		point37	37	6,763,604.0	1,832,456.6	914.50				Average
		point36	36	6,763,754.5	1,832,654.2	915.10				Average
		point35	35	6,763,905.5	1,832,849.8	916.10				Average
		point34	34	6,764,066.0	1,833,033.0	917.00				Average
		point33	33	6,764,233.5	1,833,215.5	918.50				Average
		point32	32	6,764,413.0	1,833,410.2	925.00				Average
		point31	31	6,764,553.5	1,833,563.0	932.00				Average
		point30	30	6,764,706.0	1,833,725.1	940.00				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point29	29	6,764,871.5	1,833,906.1	949.00				Average	
		point28	28	6,765,012.0	1,834,058.8	955.00				Average	
		point27	27	6,765,176.5	1,834,233.2	958.90				Average	
		point26	26	6,765,345.5	1,834,416.4	960.20				Average	
		point25	25	6,765,527.5	1,834,612.0	960.80				Average	
		point24	24	6,765,700.5	1,834,797.2	961.60				Average	
		point23	23	6,765,891.0	1,835,003.8	962.10				Average	
		point22	22	6,766,048.5	1,835,174.6	962.90				Average	
		point532	532	6,766,219.5	1,835,357.8	963.20				Average	
		point20	20	6,766,402.5	1,835,555.5	968.00				Average	
		point19	19	6,766,570.5	1,835,735.8	976.00				Average	
		point18	18	6,766,741.5	1,835,920.5	985.00				Average	
		point17	17	6,766,882.5	1,836,070.9	992.00				Average	
		point16	16	6,767,044.5	1,836,249.0	999.00				Average	
		point15	15	6,767,225.5	1,836,441.8	1,004.00				Average	
		point14	14	6,767,407.5	1,836,639.4	1,006.20				Average	
		point13	13	6,767,568.5	1,836,812.4	1,006.40				Average	
		point12	12	6,767,719.0	1,836,975.2	1,007.10				Average	
		point11	11	6,767,875.5	1,837,142.4	1,007.00				Average	
		point10	10	6,768,047.0	1,837,328.5	1,004.90				Average	
		point9	9	6,768,198.0	1,837,490.8	1,002.00				Average	
		point8	8	6,768,380.0	1,837,686.9	998.40				Average	
		point7	7	6,768,531.0	1,837,849.8	995.40				Average	
		point6	6	6,768,688.0	1,838,010.4	993.00				Average	
		point5	5	6,768,836.5	1,838,152.2	990.00				Average	
		point4	4	6,768,994.0	1,838,300.6	985.00				Average	
		point3	3	6,769,165.5	1,838,448.9	979.50				Average	
		point2	2	6,769,345.5	1,838,603.8	973.60				Average	
		point1	1	6,769,539.0	1,838,765.9	966.40					
La Crosse (northern)	12.0	point551	534	6,766,009.0	1,835,556.4	983.00				Average	
		point547	535	6,765,965.5	1,835,529.5	981.60				Average	
		point548	536	6,765,926.5	1,835,492.6	981.00				Average	
		point549	537	6,765,893.5	1,835,433.8	980.50				Average	
		point550	538	6,765,886.0	1,835,408.9	981.00					
La Crosse SB	12.0	point535	539	6,765,862.0	1,835,377.6	979.00				Average	
		point536	540	6,765,848.0	1,835,263.8	975.50				Average	
		point537	541	6,765,777.5	1,835,155.6	972.50				Average	
		point538	542	6,765,702.5	1,835,060.4	970.50				Average	
		point539	543	6,765,620.5	1,834,962.1	969.00				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point540	544	6,765,452.0	1,834,758.2	964.50					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50					Average
		point156	156	6,769,292.0	1,838,653.6	973.10					Average
		point155	155	6,769,114.0	1,838,500.6	979.80					Average
		point154	154	6,768,941.5	1,838,350.8	985.80					Average
		point153	153	6,768,787.0	1,838,201.9	991.00					Average
		point152	152	6,768,637.5	1,838,059.1	994.00					Average
		point151	151	6,768,481.5	1,837,899.8	996.50					Average
		point150	150	6,768,324.5	1,837,731.5	998.70					Average
		point149	149	6,768,146.5	1,837,539.2	1,001.90					Average
		point148	148	6,767,994.0	1,837,374.8	1,004.80					Average
		point147	147	6,767,820.5	1,837,188.2	1,006.90					Average
		point146	146	6,767,668.0	1,837,022.6	1,007.10					Average
		point145	145	6,767,517.0	1,836,860.6	1,006.70					Average
		point144	144	6,767,356.0	1,836,686.2	1,006.20					Average
		point533	533	6,767,172.0	1,836,487.9	1,004.00					Average
		point142	142	6,766,991.0	1,836,292.2	998.90					Average
		point141	141	6,766,828.5	1,836,116.8	992.00					Average
		point140	140	6,766,689.5	1,835,966.8	984.50					Average
		point139	139	6,766,517.0	1,835,781.0	976.00					Average
		point138	138	6,766,348.0	1,835,599.4	967.80					Average
		point531	531	6,766,133.0	1,835,368.1	963.30					Average
		point136	136	6,765,999.5	1,835,223.5	962.80					Average
		point135	135	6,765,837.0	1,835,048.1	962.20					Average
		point134	134	6,765,647.5	1,834,843.9	961.70					Average
		point133	133	6,765,474.0	1,834,657.2	960.90					Average
		point132	132	6,765,292.5	1,834,461.8	960.40					Average
		point131	131	6,765,124.5	1,834,280.2	958.70					Average
		point130	130	6,764,960.5	1,834,102.9	954.80					Average
		point129	129	6,764,819.5	1,833,952.1	948.40					Average
		point128	128	6,764,650.5	1,833,769.1	939.80					Average
		point127	127	6,764,500.5	1,833,607.5	932.00					Average
		point126	126	6,764,368.5	1,833,463.8	925.50					Average
		point125	125	6,764,179.0	1,833,259.9	919.50					Average
		point124	124	6,764,013.0	1,833,077.6	918.20					Average
		point123	123	6,763,850.5	1,832,887.6	917.10					Average
		point122	122	6,763,711.5	1,832,715.1	916.30					Average
		point121	121	6,763,546.0	1,832,498.2	915.40					Average
		point120	120	6,763,362.0	1,832,252.2	915.40					

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse NB	12.0	point545	545	6,765,466.0	1,834,747.4	966.00				Average	
		point546	546	6,765,633.5	1,834,955.2	969.00				Average	
		point547	547	6,765,713.0	1,835,053.5	971.00				Average	
		point548	548	6,765,794.0	1,835,144.2	973.00				Average	
		point549	549	6,765,864.5	1,835,255.5	976.00				Average	
		point550	550	6,765,905.5	1,835,377.1	979.00					

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

LSA Associates, Inc.									17 January 2011				
Teak Kim									TNM 2.5				
									Calculated with TNM 2.5				

RESULTS: SOUND LEVELS

PROJECT/CONTRACT:	I-215/Barton Road Interchange												
RUN:	Calibration 08												
BARRIER DESIGN:	INPUT HEIGHTS												
ATMOSPHERICS:	68 deg F, 50% RH												
	Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												

Receiver												
Name	No.	#DUs	Existing	No Barrier		Increase over existing		Type Impact	With Barrier			
			LAeq1h	LAeq1h	Crit'n	Calculated	Crit'n		Calculated	Noise Reduction	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
M-8	167	1	0.0	54.5	66	54.5	12	----	54.5	0.0	5	-5.0
R-60	177	1	0.0	55.0	66	55.0	12	----	55.0	0.0	5	-5.0
R-61	178	1	0.0	54.3	66	54.3	12	----	54.3	0.0	5	-5.0
R-62	179	1	0.0	53.9	66	53.9	12	----	53.9	0.0	5	-5.0
R-63	180	1	0.0	53.8	66	53.8	12	----	53.8	0.0	5	-5.0
R-64	181	1	0.0	53.4	66	53.4	12	----	53.4	0.0	5	-5.0
R-65	182	1	0.0	53.0	66	53.0	12	----	53.0	0.0	5	-5.0
R-66	183	1	0.0	52.3	66	52.3	12	----	52.3	0.0	5	-5.0
R-70	184	1	0.0	58.6	66	58.6	12	----	58.6	0.0	5	-5.0
R-71	185	1	0.0	55.7	66	55.7	12	----	55.7	0.0	5	-5.0
R-72	186	1	0.0	54.2	66	54.2	12	----	54.2	0.0	5	-5.0
R-73	187	1	0.0	53.2	66	53.2	12	----	53.2	0.0	5	-5.0
R-74	188	1	0.0	53.7	66	53.7	12	----	53.7	0.0	5	-5.0
R-75	189	1	0.0	52.2	66	52.2	12	----	52.2	0.0	5	-5.0
R-76	190	1	0.0	52.3	66	52.3	12	----	52.3	0.0	5	-5.0
R-77	191	1	0.0	60.4	66	60.4	12	----	60.4	0.0	5	-5.0
R-78	192	1	0.0	55.8	66	55.8	12	----	55.8	0.0	5	-5.0
R-79	193	1	0.0	55.8	66	55.8	12	----	55.8	0.0	5	-5.0
R-80	194	1	0.0	55.1	66	55.1	12	----	55.1	0.0	5	-5.0
R-81	195	1	0.0	53.1	66	53.1	12	----	53.1	0.0	5	-5.0
R-82	196	1	0.0	52.7	66	52.7	12	----	52.7	0.0	5	-5.0
R-83	197	1	0.0	60.7	66	60.7	12	----	60.7	0.0	5	-5.0
R-84	198	1	0.0	56.2	66	56.2	12	----	56.2	0.0	5	-5.0
R-85	199	1	0.0	56.9	66	56.9	12	----	56.9	0.0	5	-5.0

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

R-86	200	1	0.0	55.2	66	55.2	12	----	55.2	0.0	5	-5.0
R-87	201	1	0.0	54.4	66	54.4	12	----	54.4	0.0	5	-5.0
R-88	202	1	0.0	53.2	66	53.2	12	----	53.2	0.0	5	-5.0
R-89	203	1	0.0	51.4	66	51.4	12	----	51.4	0.0	5	-5.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		28	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.				14 January 2011		
Teak Kim				TNM 2.5		
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:		I-215/Barton Road Interchange				
RUN:		Calibration 08				
Building Row			Points			
Name	Average	Building	No.	Coordinates (ground)		
	Height	Percent		X	Y	Z
	ft	%		ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	80	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	80	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	80	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building4	15.00	80	67	6,767,639.0	1,836,566.8	1,013.50
			72	6,767,663.0	1,836,524.9	1,014.00
			68	6,767,683.5	1,836,473.0	1,014.00
			69	6,767,665.5	1,836,433.1	1,014.50
			70	6,767,597.0	1,836,386.5	1,014.50
			99	6,767,575.5	1,836,365.1	1,015.00
			100	6,767,524.0	1,836,367.2	1,014.00
			101	6,767,500.5	1,836,295.2	1,013.50
Building6	15.00	80	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building15	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

EW #3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0
Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Existing Wall 8	W	point21	101	5.30	5.30	5.30	115	610				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point22	102	5.30	5.30	5.30	128	676				0
		point23	103	5.30	5.30	5.30	218	1153				0
		point24	104	5.30	5.30	5.30	138	730				0
		point25	105	5.30	5.30	5.30	30	161				0
		point26	106	5.30	5.30	5.30	5	27				0
		point27	107	5.30	5.30	5.30	81	427				0
		point28	108	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	110	5.30	5.30	5.30	99	524				0
		point31	111	5.30	5.30	5.30	86	457				0
		point32	112	5.30	5.30	5.30	68	360				0
Existing Wall 6	W	point121	114	6.00	6.00	6.00	54	321				0
		point120	115	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	117	7.00	7.00	7.00	29	201				0
		point118	118	7.00	7.00	7.00	72	507				0
		point117	119	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	121	6.00	6.00	6.00	72	430				0
		point115	122	6.00	6.00	6.00	10	60				0
		point114	123	6.00	6.00	6.00	81	485				0
		point113	124	6.00	6.00	6.00	3	20				0
		point217	125	6.00	6.00	6.00	36	214				0
		point218	126	6.00	6.00	6.00	9	51				0
		point219	127	6.00	6.00	6.00	27	164				0
		point220	128	6.00	6.00	6.00	3	20				0
		point221	129	6.00	6.00	6.00	8	49				0
		point245	130	6.00	6.00	6.00	81	483				0
		point246	131	6.00	6.00	6.00	124	743				0
		point247	132	6.00	6.00	6.00	44	262				0
		point248	133	6.00	6.00	6.00	72	435				0
Existing Wall 6	W	point256	135	5.00	5.00	5.00	45	227				0
Existing Wall 6	W	point255	137	5.00	5.00	5.00	127	633				0
Building Barrier 21	W	point117	139	15.00	15.00	15.00	43	641				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 22	W	point119	141	15.00	15.00	15.00	43	641					0
Building Barrier 23	W	point121	143	15.00	15.00	15.00	51	767					0
Building Barrier 25	W	point125	145	15.00	15.00	15.00	45	679					0
Building Barrier 26	W	point127	160	15.00	15.00	15.00	29	434					0
Building Barrier 27	W	point129	161	15.00	15.00	15.00	69	1029					0
Building Barrier 28	W	point97	162	15.00	15.00	15.00	60	905					0
Building Barrier 29	W	point99	163	15.00	15.00	15.00	60	902					0
Building Barrier 30	W	point101	164	15.00	15.00	15.00	39	586					0
Building Barrier 31	W	point131	165	15.00	15.00	15.00	40	607					0
Building Barrier 32	W	point133	166	15.00	15.00	15.00	55	819					0
Building Barrier 33	W	point135	167	15.00	15.00	15.00	67	1000					0
Building Barrier 34	W	point137	168	15.00	15.00	15.00	82	1236					0
Building Barrier 35	W	point139	169	15.00	15.00	15.00	77	1153					0
Building Barrier 36	W	point141	170	15.00	15.00	15.00	56	838					0
Building Barrier 37	W	point143	171	15.00	15.00	15.00	46	687					0
Building Barrier 24	W	point123	175	15.00	15.00	15.00	49	731					0
Building Barrier 10	W	point105	177	15.00	15.00	15.00	77	1148					0
Building Barrier 11	W	point107	184	15.00	15.00	15.00	60	893					0
Building Barrier 12	W	point126	185	15.00	15.00	15.00	62	923					0
Building Barrier 13	W	point111	186	15.00	15.00	15.00	64	960					0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 14	W	point113	187	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	188	15.00	15.00	15.00	29	428				0
Building Barrier 7	W	point103	189	15.00	15.00	15.00	42	630				0

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	22 June 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration 09

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	\$ per	\$ per	Top	Run:Rise	\$ per			X	Y	Z	at	Seg	Ht	Perturbs	On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
		ft	ft	Area	Vol.		ft:ft	Length			ft	ft	ft	ft	ment				tions?
				\$/sq ft	\$/cu yd			\$/ft											
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0		
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					

INPUT: BARRIERS

I-215/Barton Road Interchange

Existing Wall 1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0		
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0		
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00					
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0		
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0		
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00					
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0		
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0		
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0		
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0		
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00					
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0		
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00					
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0		
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0		
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00					
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0		
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	97	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	96	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	99	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	98	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	101	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	100	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 7	W	0.00	99.99	0.00				0.00	point103	103	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point102	102	6,768,134.5	1,835,263.8	1,022.00	15.00				
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	105	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	104	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	107	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	106	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	111	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	110	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	113	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	112	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	115	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	114	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point117	117	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point116	116	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point119	119	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point118	118	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point121	121	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point120	120	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	123	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	122	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point125	125	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point124	124	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point127	127	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point126	126	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point129	129	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point128	128	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 31	W	0.00	99.99	0.00			0.00	point131	131	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point130	130	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00			0.00	point133	133	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point132	132	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00			0.00	point135	135	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point134	134	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00			0.00	point137	137	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point136	136	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00			0.00	point139	139	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point138	138	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00			0.00	point141	141	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point140	140	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00			0.00	point143	143	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point142	142	6,765,577.0	1,837,024.2	979.30	15.00					
Existing wall 9	W	0.00	99.99	0.00			0.00	point97	149	6,766,517.5	1,835,485.5	986.00	6.00	0.00	0	0		
								point98	150	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
								point99	151	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
								point100	152	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
								point101	153	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
								point102	154	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	155	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	156	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	157	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	158	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point119	159	6,767,311.5	1,836,437.0	1,007.20	6.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point252	160	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
								point118	161	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
								point117	162	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
								point116	163	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point253	164	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
								point115	165	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
								point114	166	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
								point113	167	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
								point217	168	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
								point218	169	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
								point219	170	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
								point220	171	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
								point221	172	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
								point245	173	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
								point246	174	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
								point247	175	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
								point248	176	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
								point249	177	6,767,675.5	1,836,811.1	1,011.00	6.00					
Barrier56	W	0.00	99.99	0.00			0.00	point256	178	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
								point250	179	6,767,715.0	1,836,788.8	1,013.50	5.00					
Barrier57	W	0.00	99.99	0.00			0.00	point255	180	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
								point251	181	6,767,816.0	1,836,961.2	1,016.00	5.00					

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.											
Teak Kim											

22 June 2011

TNM 2.5

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Calibration 09

BARRIER DESIGN: INPUT HEIGHTS

Barriers										
Name	Type	Heights along Barrier			Length	If Wall	If Berm	Top	Run:Rise	Cost
		Min	Avg	Max						
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$
Existing Wall 5a	W	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777				0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664				0
Existing Wall 4b	W	12.60	12.60	12.60	698	8794				0
Existing Wall 8	W	5.30	5.30	5.30	768	4070				0
Existing Wall 7	W	5.30	5.30	5.30	253	1341				0
Building Barrier 9	W	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	5.00	5.00	5.00	143	716				0
Existing Wall 3	W	5.00	5.00	5.00	160	801				0
Building Barrier 1	W	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	25.00	25.00	25.00	122	3046				0
Building Barrier 4	W	25.00	25.00	25.00	384	9597				0
Building Barrier 5	W	20.00	20.00	20.00	145	2899				0
Building Barrier 6	W	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	15.00	15.00	15.00	145	2168				0
Building Barrier 20	W	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	15.00	15.00	15.00	430	6443				0
Building Barrier 28	W	15.00	15.00	15.00	60	905				0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point27	27	5.30	5.30	5.30	81	427				0
		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 9	W	point44	44	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	point46	46	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	point48	48	5.00	5.00	5.00	78	388				0
		point49	49	5.00	5.00	5.00	65	327				0
Existing Wall 3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 28	W	point97	97	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	point99	99	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	point101	101	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	point103	103	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	point105	105	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	point107	107	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	point111	111	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	point113	113	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	115	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	point117	117	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	point119	119	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	point121	121	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	point123	123	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	point125	125	15.00	15.00	15.00	45	679				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 26	W	point127	127	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	point129	129	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	point131	131	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	point133	133	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	point135	135	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	point137	137	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	point139	139	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	point141	141	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	point143	143	15.00	15.00	15.00	46	687				0
Existing wall 9	W	point97	149	6.00	6.00	6.00	59	351				0
		point98	150	6.00	6.00	6.00	129	771				0
		point99	151	6.00	6.00	6.00	109	654				0
		point100	152	6.00	6.00	6.00	120	720				0
		point101	153	6.00	6.00	6.00	115	687				0
Building Barrier 12	W	point126	155	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	point121	157	6.00	6.00	6.00	54	321				0
		point120	158	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	160	7.00	7.00	7.00	29	201				0
		point118	161	7.00	7.00	7.00	72	507				0
		point117	162	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	164	6.00	6.00	6.00	72	430				0
		point115	165	6.00	6.00	6.00	10	60				0
		point114	166	6.00	6.00	6.00	81	485				0
		point113	167	6.00	6.00	6.00	3	20				0
		point217	168	6.00	6.00	6.00	36	214				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point218	169	6.00	6.00	6.00	9	51				0
		point219	170	6.00	6.00	6.00	27	164				0
		point220	171	6.00	6.00	6.00	3	20				0
		point221	172	6.00	6.00	6.00	8	49				0
		point245	173	6.00	6.00	6.00	81	483				0
		point246	174	6.00	6.00	6.00	124	743				0
		point247	175	6.00	6.00	6.00	44	262				0
		point248	176	6.00	6.00	6.00	72	435				0
Barrier56	W	point256	178	5.00	5.00	5.00	45	227				0
Barrier57	W	point255	180	5.00	5.00	5.00	127	633				0

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.			22 June 2011			
Teak Kim			TNM 2.5			
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:			I-215/Barton Road Interchange			
RUN:			Calibration 09			
Building Row			Points			
Name	Average Height	Building Percent	No.	Coordinates (ground)		
	ft	%		X	Y	Z
				ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building11	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average
		point46	46	6,768,365.0	1,837,698.0	998.70				Average
		point45	45	6,768,518.0	1,837,862.1	995.60				Average
		point44	44	6,768,674.5	1,838,022.8	993.30				Average
		point43	43	6,768,823.5	1,838,166.2	990.10				Average
		point42	42	6,768,980.5	1,838,313.8	985.20				Average
		point41	41	6,769,152.5	1,838,462.6	979.50				Average
		point40	40	6,769,332.5	1,838,617.5	973.70				Average
		point39	39	6,769,526.0	1,838,779.8	966.90				
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average
		point114	114	6,769,306.0	1,838,640.9	973.60				Average
		point113	113	6,769,128.0	1,838,488.2	979.80				Average
		point112	112	6,768,955.5	1,838,338.1	985.60				Average
		point111	111	6,768,799.0	1,838,190.2	990.80				Average
		point110	110	6,768,650.0	1,838,046.2	993.50				Average
		point109	109	6,768,494.0	1,837,885.0	996.00				Average
		point108	108	6,768,337.5	1,837,718.9	998.70				Average
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average
		point100	100	6,767,004.0	1,836,280.2	999.10				Average
		point99	99	6,766,841.5	1,836,104.6	992.10				Average
		point98	98	6,766,703.0	1,835,954.8	984.90				Average
		point97	97	6,766,530.0	1,835,768.2	976.10				Average
		point96	96	6,766,361.5	1,835,587.1	967.90				Average
		point95	95	6,766,157.5	1,835,368.2	963.10				Average
		point94	94	6,766,012.5	1,835,211.8	963.00				Average
		point93	93	6,765,850.5	1,835,035.8	962.30				Average
		point92	92	6,765,661.0	1,834,831.2	961.80				Average
		point91	91	6,765,487.5	1,834,644.8	961.20				Average
		point90	90	6,765,305.5	1,834,449.4	960.40				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00				Average	
		point256	256	6,764,014.5	1,835,366.4	953.50				Average	
		point255	255	6,764,147.0	1,835,365.4	953.00				Average	
		point254	254	6,764,493.5	1,835,375.1	965.50				Average	
		point253	253	6,764,793.0	1,835,380.8	979.70				Average	
		point252	252	6,765,094.5	1,835,380.8	972.00				Average	
		point251	251	6,765,404.5	1,835,380.8	973.00				Average	
		point250	250	6,765,697.0	1,835,379.8	977.30				Average	
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50				Average	
		point421	421	6,766,581.5	1,835,376.4	986.50				Average	
		point259	259	6,766,754.0	1,835,377.4	989.00				Average	
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100	Average	
		point292	292	6,766,902.5	1,835,415.9	992.60				Average	
		point291	291	6,766,755.5	1,835,415.0	989.20				Average	
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00				Average	
		point432	432	6,766,404.5	1,835,412.9	984.70				Average	
		point303	303	6,766,337.5	1,835,409.2	985.00				Average	Y
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50				Average	
		point312	312	6,765,393.5	1,835,410.8	972.50				Average	
		point311	311	6,765,428.5	1,835,587.1	971.00				Average	
		point310	310	6,765,470.0	1,835,755.1	970.50				Average	
		point309	309	6,765,519.5	1,836,010.5	972.00				Average	
		point308	308	6,765,571.5	1,836,274.8	974.00				Average	
		point307	307	6,765,596.5	1,836,444.6	976.00				Average	
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100	Average	
		point403	403	6,765,707.0	1,837,002.5	978.70				Average	
		point404	404	6,765,713.5	1,837,015.4	978.00				Average	
		point319	319	6,765,725.5	1,837,037.5	977.40				Average	
		point318	318	6,765,777.5	1,837,150.5	969.50				Average	
		point317	317	6,765,800.5	1,837,183.2	969.50				Average	
		point316	316	6,765,829.5	1,837,210.5	969.50				Average	
		point315	315	6,765,853.0	1,837,247.2	969.50				Average	
		point314	314	6,765,892.0	1,837,349.2	969.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

INPUT: ROADWAYS

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		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

INPUT: ROADWAYS

I-215/Barton Road Interchange

Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40					
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse SB	12.0	point535	535	6,765,862.0	1,835,377.6	979.00				Average
		point536	536	6,765,848.0	1,835,263.8	975.50				Average
		point537	537	6,765,777.5	1,835,155.6	972.50				Average
		point538	538	6,765,702.5	1,835,060.4	970.50				Average
		point539	539	6,765,620.5	1,834,962.1	969.00				Average
		point540	540	6,765,452.0	1,834,758.2	964.50				
La Crosse (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point550	550	6,765,886.0	1,835,408.9	981.00					
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50				Average	
		point37	37	6,763,604.0	1,832,456.6	914.50				Average	
		point36	36	6,763,754.5	1,832,654.2	915.10				Average	
		point35	35	6,763,905.5	1,832,849.8	916.10				Average	
		point34	34	6,764,066.0	1,833,033.0	917.00				Average	
		point33	33	6,764,233.5	1,833,215.5	918.50				Average	
		point32	32	6,764,413.0	1,833,410.2	925.00				Average	
		point31	31	6,764,553.5	1,833,563.0	932.00				Average	
		point30	30	6,764,706.0	1,833,725.1	940.00				Average	
		point29	29	6,764,871.5	1,833,906.1	949.00				Average	
		point28	28	6,765,012.0	1,834,058.8	955.00				Average	
		point27	27	6,765,176.5	1,834,233.2	958.90				Average	
		point26	26	6,765,345.5	1,834,416.4	960.20				Average	
		point25	25	6,765,527.5	1,834,612.0	960.80				Average	
		point534	534	6,765,700.5	1,834,797.2	961.60				Average	
		point23	23	6,765,891.0	1,835,003.8	962.10				Average	
		point22	22	6,766,048.5	1,835,174.6	962.90				Average	
		point21	21	6,766,219.5	1,835,357.8	963.20				Average	
		point533	533	6,766,311.0	1,835,456.6	965.60				Average	
		point20	20	6,766,402.5	1,835,555.5	968.00				Average	
		point19	19	6,766,570.5	1,835,735.8	976.00				Average	
		point18	18	6,766,741.5	1,835,920.5	985.00				Average	
		point17	17	6,766,882.5	1,836,070.9	992.00				Average	
		point16	16	6,767,044.5	1,836,249.0	999.00				Average	
		point15	15	6,767,225.5	1,836,441.8	1,004.00				Average	
		point14	14	6,767,407.5	1,836,639.4	1,006.20				Average	
		point13	13	6,767,568.5	1,836,812.4	1,006.40				Average	
		point12	12	6,767,719.0	1,836,975.2	1,007.10				Average	
		point11	11	6,767,875.5	1,837,142.4	1,007.00				Average	
		point10	10	6,768,047.0	1,837,328.5	1,004.90				Average	
		point9	9	6,768,198.0	1,837,490.8	1,002.00				Average	
		point8	8	6,768,380.0	1,837,686.9	998.40				Average	
		point7	7	6,768,531.0	1,837,849.8	995.40				Average	
		point6	6	6,768,688.0	1,838,010.4	993.00				Average	
		point5	5	6,768,836.5	1,838,152.2	990.00				Average	
		point4	4	6,768,994.0	1,838,300.6	985.00				Average	
		point3	3	6,769,165.5	1,838,448.9	979.50				Average	
		point2	2	6,769,345.5	1,838,603.8	973.60				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point1	1	6,769,539.0	1,838,765.9	966.40					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50				Average	
		point156	156	6,769,292.0	1,838,653.6	973.10				Average	
		point155	155	6,769,114.0	1,838,500.6	979.80				Average	
		point154	154	6,768,941.5	1,838,350.8	985.80				Average	
		point153	153	6,768,787.0	1,838,201.9	991.00				Average	
		point152	152	6,768,637.5	1,838,059.1	994.00				Average	
		point151	151	6,768,481.5	1,837,899.8	996.50				Average	
		point150	150	6,768,324.5	1,837,731.5	998.70				Average	
		point149	149	6,768,146.5	1,837,539.2	1,001.90				Average	
		point148	148	6,767,994.0	1,837,374.8	1,004.80				Average	
		point147	147	6,767,820.5	1,837,188.2	1,006.90				Average	
		point146	146	6,767,668.0	1,837,022.6	1,007.10				Average	
		point145	145	6,767,517.0	1,836,860.6	1,006.70				Average	
		point144	144	6,767,356.0	1,836,686.2	1,006.20				Average	
		point532	532	6,767,172.0	1,836,487.9	1,004.00				Average	
		point142	142	6,766,991.0	1,836,292.2	998.90				Average	
		point141	141	6,766,828.5	1,836,116.8	992.00				Average	
		point140	140	6,766,689.5	1,835,966.8	984.50				Average	
		point139	139	6,766,517.0	1,835,781.0	976.00				Average	
		point138	138	6,766,348.0	1,835,599.4	967.80				Average	
		point531	531	6,766,133.0	1,835,368.1	963.30				Average	
		point136	136	6,765,999.5	1,835,223.5	962.80				Average	
		point135	135	6,765,837.0	1,835,048.1	962.20				Average	
		point134	134	6,765,647.5	1,834,843.9	961.70				Average	
		point133	133	6,765,474.0	1,834,657.2	960.90				Average	
		point132	132	6,765,292.5	1,834,461.8	960.40				Average	
		point131	131	6,765,124.5	1,834,280.2	958.70				Average	
		point130	130	6,764,960.5	1,834,102.9	954.80				Average	
		point129	129	6,764,819.5	1,833,952.1	948.40				Average	
		point128	128	6,764,650.5	1,833,769.1	939.80				Average	
		point127	127	6,764,500.5	1,833,607.5	932.00				Average	
		point126	126	6,764,368.5	1,833,463.8	925.50				Average	
		point125	125	6,764,179.0	1,833,259.9	919.50				Average	
		point124	124	6,764,013.0	1,833,077.6	918.20				Average	
		point123	123	6,763,850.5	1,832,887.6	917.10				Average	
		point122	122	6,763,711.5	1,832,715.1	916.30				Average	
		point121	121	6,763,546.0	1,832,498.2	915.40				Average	
		point120	120	6,763,362.0	1,832,252.2	915.40					

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse NB	12.0	point552	552	6,765,466.0	1,834,747.4	966.00				Average	
		point553	553	6,765,633.5	1,834,955.2	969.00				Average	
		point554	554	6,765,713.0	1,835,053.5	971.00				Average	
		point555	555	6,765,794.0	1,835,144.2	973.00				Average	
		point556	556	6,765,864.5	1,835,255.5	976.00				Average	
		point557	557	6,765,905.5	1,835,377.1	979.00					

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

LSA Associates, Inc.										22 June 2011			
Teak Kim										TNM 2.5			
										Calculated with TNM 2.5			

RESULTS: SOUND LEVELS

PROJECT/CONTRACT:	I-215/Barton Road Interchange												
RUN:	Calibration 09												
BARRIER DESIGN:	INPUT HEIGHTS												
ATMOSPHERICS:	68 deg F, 50% RH												

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver													
Name	No.	#DUs	Existing	No Barrier	Increase over existing			With Barrier					
			LAeq1h	LAeq1h	Crit'n	Calculated	Crit'n	Type	Calculated	Noise Reduction		Calculated	
				Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated	minus
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	Goal
M-9	1	1	0.0	60.5	66	60.5	12	----	60.5	0.0	5	-5.0	
R-93	2	1	0.0	47.6	66	47.6	12	----	47.6	0.0	5	-5.0	
R-94	3	1	0.0	49.3	66	49.3	12	----	49.3	0.0	5	-5.0	
R-95	4	1	0.0	51.2	66	51.2	12	----	51.2	0.0	5	-5.0	
R-96	5	1	0.0	52.2	66	52.2	12	----	52.2	0.0	5	-5.0	
R-97	6	1	0.0	52.6	66	52.6	12	----	52.6	0.0	5	-5.0	
R-98	7	1	0.0	52.6	66	52.6	12	----	52.6	0.0	5	-5.0	
R-99	8	1	0.0	53.2	66	53.2	12	----	53.2	0.0	5	-5.0	
R-100	9	1	0.0	55.0	66	55.0	12	----	55.0	0.0	5	-5.0	
R-101	10	1	0.0	55.5	66	55.5	12	----	55.5	0.0	5	-5.0	
R-102	11	1	0.0	56.1	66	56.1	12	----	56.1	0.0	5	-5.0	
R-103	12	1	0.0	56.5	66	56.5	12	----	56.5	0.0	5	-5.0	
R-104	13	1	0.0	57.2	66	57.2	12	----	57.2	0.0	5	-5.0	
R-105	14	1	0.0	57.1	66	57.1	12	----	57.1	0.0	5	-5.0	
R-106	15	1	0.0	59.4	66	59.4	12	----	59.4	0.0	5	-5.0	
R-107	16	1	0.0	65.7	66	65.7	12	----	65.7	0.0	5	-5.0	
R-139	173	1	0.0	64.7	66	64.7	12	----	64.7	0.0	5	-5.0	
R-140	174	1	0.0	67.0	66	67.0	12	Snd Lvl	67.0	0.0	5	-5.0	
R-141	175	1	0.0	67.1	66	67.1	12	Snd Lvl	67.1	0.0	5	-5.0	

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	19	0.0	0.0	0.0

RESULTS: SOUND LEVELS**I-215/Barton Road Interchange**

All Impacted		2	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

LSA Associates, Inc.			22 June 2011	
Teak Kim			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	I-215/Barton Road Interchange			
RUN:	Calibration 09			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,764,381.5	1,833,279.8	942.00
	2	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,016.5	1,833,967.0	943.00
	6	6,765,092.0	1,834,055.4	945.00
	7	6,765,258.0	1,834,237.6	954.00
	8	6,765,400.0	1,834,395.8	960.00
	9	6,765,541.0	1,834,544.6	964.00
	10	6,765,738.0	1,834,749.4	972.00
Terrain Line6	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	16	6,766,314.0	1,835,368.2	984.00
Terrain Line7	22	6,766,507.0	1,835,493.1	986.00
	23	6,766,573.5	1,835,591.8	987.00
	24	6,766,630.0	1,835,668.0	987.00
	25	6,766,679.5	1,835,723.8	989.00
	26	6,766,758.0	1,835,818.9	990.00
	27	6,766,863.0	1,835,948.1	994.00
	28	6,766,975.0	1,836,081.6	998.00
	29	6,767,078.5	1,836,200.6	1,001.00
	30	6,767,228.0	1,836,360.2	1,004.00
	31	6,767,393.0	1,836,514.6	1,010.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00

INPUT: TERRAIN LINES**I-215/Barton Road Interchange**

	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00
	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line15	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00

INPUT: TERRAIN LINES**I-215/Barton Road Interchange**

	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line14	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line11	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
	99	6,766,171.0	1,835,508.8	985.00
	100	6,766,103.5	1,835,420.1	982.00
Terrain Line8	102	6,767,393.0	1,836,514.6	1,010.00
	32	6,767,432.0	1,836,546.8	1,010.00
Terrain Line9	106	6,767,811.0	1,836,956.8	1,015.00
	37	6,767,911.0	1,837,066.2	1,017.00
	38	6,767,981.5	1,837,102.2	1,020.00
Terrain Line5	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,206.5	1,835,144.8	975.00
Terrain Line13	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,149.0	1,836,589.2	992.00
Terrain Line12	125	6,765,595.0	1,835,437.0	980.00
	126	6,765,566.0	1,835,436.2	979.30
	127	6,765,445.5	1,835,448.2	976.50

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.				22 June 2011									
Teak Kim				TNM 2.5									
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		I-215/Barton Road Interchange											
RUN:		Calibration 09											
Roadway		Points											
Name		Name	No.	Segment									
				Autos		MTrucks		HTrucks		Buses		Motorcycles	
				V	S	V	S	V	S	V	S	V	S
				veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3		point76	76	1344	71	36	58	85	58	0	0	0	0
		point75	75	1344	71	36	58	85	58	0	0	0	0
		point74	74	1344	71	36	58	85	58	0	0	0	0
		point73	73	1344	71	36	58	85	58	0	0	0	0
		point72	72	1344	71	36	58	85	58	0	0	0	0
		point71	71	1344	71	36	58	85	58	0	0	0	0
		point70	70	1344	71	36	58	85	58	0	0	0	0
		point69	69	1344	71	36	58	85	58	0	0	0	0
		point68	68	1344	71	36	58	85	58	0	0	0	0
		point67	67	1344	71	36	58	85	58	0	0	0	0
		point66	66	1344	71	36	58	85	58	0	0	0	0
		point65	65	1344	71	36	58	85	58	0	0	0	0
		point64	64	1344	71	36	58	85	58	0	0	0	0
		point63	63	1344	71	36	58	85	58	0	0	0	0
		point62	62	1344	71	36	58	85	58	0	0	0	0
		point61	61	1344	71	36	58	85	58	0	0	0	0
		point60	60	1344	71	36	58	85	58	0	0	0	0
		point59	59	1344	71	36	58	85	58	0	0	0	0
		point58	58	1344	71	36	58	85	58	0	0	0	0
		point57	57	1344	71	36	58	85	58	0	0	0	0
		point56	56	1344	71	36	58	85	58	0	0	0	0
		point55	55	1344	71	36	58	85	58	0	0	0	0
		point54	54	1344	71	36	58	85	58	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1344	71	36	58	85	58	0	0	0	0
	point52	52	1344	71	36	58	85	58	0	0	0	0
	point51	51	1344	71	36	58	85	58	0	0	0	0
	point50	50	1344	71	36	58	85	58	0	0	0	0
	point49	49	1344	71	36	58	85	58	0	0	0	0
	point48	48	1344	71	36	58	85	58	0	0	0	0
	point47	47	1344	71	36	58	85	58	0	0	0	0
	point46	46	1344	71	36	58	85	58	0	0	0	0
	point45	45	1344	71	36	58	85	58	0	0	0	0
	point44	44	1344	71	36	58	85	58	0	0	0	0
	point43	43	1344	71	36	58	85	58	0	0	0	0
	point42	42	1344	71	36	58	85	58	0	0	0	0
	point41	41	1344	71	36	58	85	58	0	0	0	0
	point40	40	1344	71	36	58	85	58	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1359	71	68	58	45	58	0	0	0	0
	point114	114	1359	71	68	58	45	58	0	0	0	0
	point113	113	1359	71	68	58	45	58	0	0	0	0
	point112	112	1359	71	68	58	45	58	0	0	0	0
	point111	111	1359	71	68	58	45	58	0	0	0	0
	point110	110	1359	71	68	58	45	58	0	0	0	0
	point109	109	1359	71	68	58	45	58	0	0	0	0
	point108	108	1359	71	68	58	45	58	0	0	0	0
	point107	107	1359	71	68	58	45	58	0	0	0	0
	point106	106	1359	71	68	58	45	58	0	0	0	0
	point105	105	1359	71	68	58	45	58	0	0	0	0
	point104	104	1359	71	68	58	45	58	0	0	0	0
	point103	103	1359	71	68	58	45	58	0	0	0	0
	point102	102	1359	71	68	58	45	58	0	0	0	0
	point101	101	1359	71	68	58	45	58	0	0	0	0
	point100	100	1359	71	68	58	45	58	0	0	0	0
	point99	99	1359	71	68	58	45	58	0	0	0	0
	point98	98	1359	71	68	58	45	58	0	0	0	0
	point97	97	1359	71	68	58	45	58	0	0	0	0
	point96	96	1359	71	68	58	45	58	0	0	0	0
	point95	95	1359	71	68	58	45	58	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1359	71	68	58	45	58	0	0	0	0
	point93	93	1359	71	68	58	45	58	0	0	0	0
	point92	92	1359	71	68	58	45	58	0	0	0	0
	point91	91	1359	71	68	58	45	58	0	0	0	0
	point90	90	1359	71	68	58	45	58	0	0	0	0
	point89	89	1359	71	68	58	45	58	0	0	0	0
	point88	88	1359	71	68	58	45	58	0	0	0	0
	point87	87	1359	71	68	58	45	58	0	0	0	0
	point86	86	1359	71	68	58	45	58	0	0	0	0
	point85	85	1359	71	68	58	45	58	0	0	0	0
	point84	84	1359	71	68	58	45	58	0	0	0	0
	point83	83	1359	71	68	58	45	58	0	0	0	0
	point82	82	1359	71	68	58	45	58	0	0	0	0
	point81	81	1359	71	68	58	45	58	0	0	0	0
	point80	80	1359	71	68	58	45	58	0	0	0	0
	point79	79	1359	71	68	58	45	58	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	352	45	28	45	16	40	0	0	0	0
	point200	200	352	45	28	45	16	40	0	0	0	0
	point201	201	352	45	28	45	16	40	0	0	0	0
	point202	202	352	45	28	45	16	40	0	0	0	0
	point203	203	352	45	28	45	16	40	0	0	0	0
	point204	204	352	45	28	45	16	40	0	0	0	0
	point205	205	352	45	28	45	16	40	0	0	0	0
	point206	206	352	45	28	45	16	40	0	0	0	0
	point207	207	352	45	28	45	16	40	0	0	0	0
	point208	208	352	45	28	45	16	40	0	0	0	0
	point209	209	352	45	28	45	16	40	0	0	0	0
	point210	210	352	45	28	45	16	40	0	0	0	0
	point435	435	352	40	28	40	16	35	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	0	0	0	0	0	0	0	0	0	0
	point223	223	0	0	0	0	0	0	0	0	0	0
	point224	224	0	0	0	0	0	0	0	0	0	0
	point225	225	0	0	0	0	0	0	0	0	0	0
	point226	226	0	0	0	0	0	0	0	0	0	0
	point227	227	0	0	0	0	0	0	0	0	0	0
	point228	228	0	0	0	0	0	0	0	0	0	0
	point420	420	0	0	0	0	0	0	0	0	0	0
	point229	229										
Barton EB	point257	257	508	40	28	40	20	35	0	0	0	0
	point256	256	508	40	28	40	20	35	0	0	0	0
	point255	255	508	40	28	40	20	35	0	0	0	0
	point254	254	508	40	28	40	20	35	0	0	0	0
	point253	253	508	40	28	40	20	35	0	0	0	0
	point252	252	508	40	28	40	20	35	0	0	0	0
	point251	251	508	40	28	40	20	35	0	0	0	0
	point250	250	508	40	28	40	20	35	0	0	0	0
	point436	436										
Barton EB	point260	260	0	0	0	0	0	0	0	0	0	0
	point421	421	0	0	0	0	0	0	0	0	0	0
	point259	259	0	0	0	0	0	0	0	0	0	0
	point258	258										
Barton WB	point397	397	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point291	291	0	0	0	0	0	0	0	0	0	0
	point290	290										
Barton WB	point304	304	396	40	8	40	16	35	0	0	0	0
	point432	432	396	40	8	40	16	35	0	0	0	0
	point303	303	396	40	8	40	16	35	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	40	30	4	30	0	0	0	0	0	0
	point312	312	40	30	4	30	0	0	0	0	0	0
	point311	311	40	30	4	30	0	0	0	0	0	0
	point310	310	40	30	4	30	0	0	0	0	0	0
	point309	309	40	30	4	30	0	0	0	0	0	0
	point308	308	40	30	4	30	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	40	30	4	30	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	40	30	4	30	0	0	0	0	0	0
	point403	403	40	30	4	30	0	0	0	0	0	0
	point404	404	40	30	4	30	0	0	0	0	0	0
	point319	319	40	30	4	30	0	0	0	0	0	0
	point318	318	40	30	4	30	0	0	0	0	0	0
	point317	317	40	30	4	30	0	0	0	0	0	0
	point316	316	40	30	4	30	0	0	0	0	0	0
	point315	315	40	30	4	30	0	0	0	0	0	0
	point314	314	40	30	4	30	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	20	30	0	0	0	0	0	0	0	0
	point406	406	20	30	0	0	0	0	0	0	0	0
	point407	407	20	30	0	0	0	0	0	0	0	0
	point326	326	20	30	0	0	0	0	0	0	0	0
	point325	325	20	30	0	0	0	0	0	0	0	0
	point324	324	20	30	0	0	0	0	0	0	0	0
	point323	323	20	30	0	0	0	0	0	0	0	0
	point322	322	20	30	0	0	0	0	0	0	0	0
	point321	321	20	30	0	0	0	0	0	0	0	0
	point425	425	20	30	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	20	30	0	0	0	0	0	0	0	0
	point332	332	20	30	0	0	0	0	0	0	0	0
	point331	331	20	30	0	0	0	0	0	0	0	0
	point330	330	20	30	0	0	0	0	0	0	0	0
	point329	329	20	30	0	0	0	0	0	0	0	0
	point328	328	20	30	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB	point426	426	0	0	0	0	0	0	0	0	0	0
	point363	363	0	0	0	0	0	0	0	0	0	0
	point364	364	0	0	0	0	0	0	0	0	0	0
	point365	365	0	0	0	0	0	0	0	0	0	0
	point366	366	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	0	0	0	0	0	0	0	0	0	0
	point368	368	0	0	0	0	0	0	0	0	0	0
	point430	430	0	0	0	0	0	0	0	0	0	0
	point369	369										
Michigan NB	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB	point431	431	0	0	0	0	0	0	0	0	0	0
	point374	374	0	0	0	0	0	0	0	0	0	0
	point375	375	0	0	0	0	0	0	0	0	0	0
	point376	376	0	0	0	0	0	0	0	0	0	0
	point377	377	0	0	0	0	0	0	0	0	0	0
	point378	378	0	0	0	0	0	0	0	0	0	0
	point379	379	0	0	0	0	0	0	0	0	0	0
	point380	380										
Michigan SB	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB Ln	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point441	441	0	0	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	508	40	28	40	20	35	0	0	0	0
	point249	249	508	40	28	40	20	35	0	0	0	0
	point248	248	508	40	28	40	20	35	0	0	0	0
	point247	247										
Barton WB	point445	445	396	40	8	40	16	35	0	0	0	0
	point434	434	396	40	8	40	16	35	0	0	0	0
	point301	301	396	40	8	40	16	35	0	0	0	0
	point300	300	396	40	8	40	16	35	0	0	0	0
	point422	422	396	40	8	40	16	35	0	0	0	0
	point423	423	396	40	8	40	16	35	0	0	0	0
	point299	299	396	40	8	40	16	35	0	0	0	0
	point298	298	396	40	8	40	16	35	0	0	0	0
	point297	297	396	40	8	40	16	35	0	0	0	0
	point296	296	396	40	8	40	16	35	0	0	0	0
	point295	295	396	40	8	40	16	35	0	0	0	0
	point294	294										
Barton EB	point398	398	0	0	0	0	0	0	0	0	0	0
	point428	428	0	0	0	0	0	0	0	0	0	0
	point429	429	0	0	0	0	0	0	0	0	0	0
	point268	268	0	0	0	0	0	0	0	0	0	0
	point267	267	0	0	0	0	0	0	0	0	0	0
	point266	266	0	0	0	0	0	0	0	0	0	0
	point265	265	0	0	0	0	0	0	0	0	0	0
	point264	264	0	0	0	0	0	0	0	0	0	0
	point263	263	0	0	0	0	0	0	0	0	0	0
	point262	262	0	0	0	0	0	0	0	0	0	0
	point439	439	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	0	0	0	0	0	0	0	0	0	0
	point269	269										
Barton WB	point280	280	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point438	438	0	0	0	0	0	0	0	0	0	0
	point289	289	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point286	286	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point412	412	0	0	0	0	0	0	0	0	0	0
	point413	413	0	0	0	0	0	0	0	0	0	0
	point283	283	0	0	0	0	0	0	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point462	462	0	0	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	0	0	0	0	0	0	0	0	0	0
	point239	239	0	0	0	0	0	0	0	0	0	0
	point238	238	0	0	0	0	0	0	0	0	0	0
	point237	237	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point236	236	0	0	0	0	0	0	0	0	0	0
	point235	235	0	0	0	0	0	0	0	0	0	0
	point234	234	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point232	232	0	0	0	0	0	0	0	0	0	0
	point231	231	0	0	0	0	0	0	0	0	0	0
	point450	450	0	0	0	0	0	0	0	0	0	0
	point451	451	0	0	0	0	0	0	0	0	0	0
	point452	452	0	0	0	0	0	0	0	0	0	0
	point453	453	0	0	0	0	0	0	0	0	0	0
	point454	454	0	0	0	0	0	0	0	0	0	0
	point456	456	0	0	0	0	0	0	0	0	0	0
	point7	522	0	0	0	0	0	0	0	0	0	0
	point6	523	0	0	0	0	0	0	0	0	0	0
	point5	524	0	0	0	0	0	0	0	0	0	0
	point4	525	0	0	0	0	0	0	0	0	0	0
	point3	526	0	0	0	0	0	0	0	0	0	0
	point2	527	0	0	0	0	0	0	0	0	0	0
	point1	528										
La Crosse SB	point535	535	0	0	0	0	0	0	0	0	0	0
	point536	536	0	0	0	0	0	0	0	0	0	0
	point537	537	0	0	0	0	0	0	0	0	0	0
	point538	538	0	0	0	0	0	0	0	0	0	0
	point539	539	0	0	0	0	0	0	0	0	0	0
	point540	540										
La Crosse (northern)	point551	551	0	0	0	0	0	0	0	0	0	0
	point547	547	0	0	0	0	0	0	0	0	0	0
	point548	548	0	0	0	0	0	0	0	0	0	0
	point549	549	0	0	0	0	0	0	0	0	0	0
	point550	550										
I-215 NB Lanes 1 & 2	point38	38	2688	71	72	58	171	58	0	0	0	0
	point37	37	2688	71	72	58	171	58	0	0	0	0
	point36	36	2688	71	72	58	171	58	0	0	0	0
	point35	35	2688	71	72	58	171	58	0	0	0	0
	point34	34	2688	71	72	58	171	58	0	0	0	0
	point33	33	2688	71	72	58	171	58	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point32	32	2688	71	72	58	171	58	0	0	0	0
	point31	31	2688	71	72	58	171	58	0	0	0	0
	point30	30	2688	71	72	58	171	58	0	0	0	0
	point29	29	2688	71	72	58	171	58	0	0	0	0
	point28	28	2688	71	72	58	171	58	0	0	0	0
	point27	27	2688	71	72	58	171	58	0	0	0	0
	point26	26	2688	71	72	58	171	58	0	0	0	0
	point25	25	2688	71	72	58	171	58	0	0	0	0
	point534	534	2688	71	72	58	171	58	0	0	0	0
	point23	23	2688	71	72	58	171	58	0	0	0	0
	point22	22	2688	71	72	58	171	58	0	0	0	0
	point21	21	2688	71	72	58	171	58	0	0	0	0
	point533	533	2688	71	72	58	171	58	0	0	0	0
	point20	20	2688	71	72	58	171	58	0	0	0	0
	point19	19	2688	71	72	58	171	58	0	0	0	0
	point18	18	2688	71	72	58	171	58	0	0	0	0
	point17	17	2688	71	72	58	171	58	0	0	0	0
	point16	16	2688	71	72	58	171	58	0	0	0	0
	point15	15	2688	71	72	58	171	58	0	0	0	0
	point14	14	2688	71	72	58	171	58	0	0	0	0
	point13	13	2688	71	72	58	171	58	0	0	0	0
	point12	12	2688	71	72	58	171	58	0	0	0	0
	point11	11	2688	71	72	58	171	58	0	0	0	0
	point10	10	2688	71	72	58	171	58	0	0	0	0
	point9	9	2688	71	72	58	171	58	0	0	0	0
	point8	8	2688	71	72	58	171	58	0	0	0	0
	point7	7	2688	71	72	58	171	58	0	0	0	0
	point6	6	2688	71	72	58	171	58	0	0	0	0
	point5	5	2688	71	72	58	171	58	0	0	0	0
	point4	4	2688	71	72	58	171	58	0	0	0	0
	point3	3	2688	71	72	58	171	58	0	0	0	0
	point2	2	2688	71	72	58	171	58	0	0	0	0
	point1	1										
I-215 SB Lanes 1 & 2	point157	157	2717	71	136	58	91	58	0	0	0	0
	point156	156	2717	71	136	58	91	58	0	0	0	0
	point155	155	2717	71	136	58	91	58	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point154	154	2717	71	136	58	91	58	0	0	0	0
	point153	153	2717	71	136	58	91	58	0	0	0	0
	point152	152	2717	71	136	58	91	58	0	0	0	0
	point151	151	2717	71	136	58	91	58	0	0	0	0
	point150	150	2717	71	136	58	91	58	0	0	0	0
	point149	149	2717	71	136	58	91	58	0	0	0	0
	point148	148	2717	71	136	58	91	58	0	0	0	0
	point147	147	2717	71	136	58	91	58	0	0	0	0
	point146	146	2717	71	136	58	91	58	0	0	0	0
	point145	145	2717	71	136	58	91	58	0	0	0	0
	point144	144	2717	71	136	58	91	58	0	0	0	0
	point532	532	2717	71	136	58	91	58	0	0	0	0
	point142	142	2717	71	136	58	91	58	0	0	0	0
	point141	141	2717	71	136	58	91	58	0	0	0	0
	point140	140	2717	71	136	58	91	58	0	0	0	0
	point139	139	2717	71	136	58	91	58	0	0	0	0
	point138	138	2717	71	136	58	91	58	0	0	0	0
	point531	531	2717	71	136	58	91	58	0	0	0	0
	point136	136	2717	71	136	58	91	58	0	0	0	0
	point135	135	2717	71	136	58	91	58	0	0	0	0
	point134	134	2717	71	136	58	91	58	0	0	0	0
	point133	133	2717	71	136	58	91	58	0	0	0	0
	point132	132	2717	71	136	58	91	58	0	0	0	0
	point131	131	2717	71	136	58	91	58	0	0	0	0
	point130	130	2717	71	136	58	91	58	0	0	0	0
	point129	129	2717	71	136	58	91	58	0	0	0	0
	point128	128	2717	71	136	58	91	58	0	0	0	0
	point127	127	2717	71	136	58	91	58	0	0	0	0
	point126	126	2717	71	136	58	91	58	0	0	0	0
	point125	125	2717	71	136	58	91	58	0	0	0	0
	point124	124	2717	71	136	58	91	58	0	0	0	0
	point123	123	2717	71	136	58	91	58	0	0	0	0
	point122	122	2717	71	136	58	91	58	0	0	0	0
	point121	121	2717	71	136	58	91	58	0	0	0	0
	point120	120										
La Crosse NB	point552	552	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**I-215/Barton Road Interchange**

	point553	553	0	0	0	0	0	0	0	0	0	0
	point554	554	0	0	0	0	0	0	0	0	0	0
	point555	555	0	0	0	0	0	0	0	0	0	0
	point556	556	0	0	0	0	0	0	0	0	0	0
	point557	557										

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration 10

Barrier									Points										
Name	Type	Height		If Wall	If Berm	Run:Rise		Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment			On	Important
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	ft:ft	\$ per Unit Length			X	Y	Z	at Point	Seg	Ht	Perturbs		
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0		
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					

INPUT: BARRIERS

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Existing Wall 1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0		
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0		
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00					
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0		
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0		
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00					
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0		
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0		
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0		
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0		
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00					
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0		
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00					
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0		
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0		
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00					
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0		
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	97	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	96	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	99	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	98	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	101	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	100	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 7	W	0.00	99.99	0.00				0.00	point103	103	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point102	102	6,768,134.5	1,835,263.8	1,022.00	15.00				
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	105	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	104	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	107	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	106	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	111	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	110	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	113	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	112	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	115	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	114	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point117	117	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point116	116	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point119	119	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point118	118	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point121	121	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point120	120	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	123	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	122	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point125	125	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point124	124	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point127	127	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point126	126	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point129	129	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point128	128	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 31	W	0.00	99.99	0.00			0.00	point131	131	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point130	130	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00			0.00	point133	133	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point132	132	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00			0.00	point135	135	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point134	134	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00			0.00	point137	137	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point136	136	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00			0.00	point139	139	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point138	138	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00			0.00	point141	141	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point140	140	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00			0.00	point143	143	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point142	142	6,765,577.0	1,837,024.2	979.30	15.00					
Existing wall 9	W	0.00	99.99	0.00			0.00	point97	149	6,766,517.5	1,835,485.5	986.00	6.00	0.00	0	0		
								point98	150	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
								point99	151	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
								point100	152	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
								point101	153	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
								point102	154	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	155	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	156	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	157	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	158	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		

INPUT: BARRIERS

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									point119	159	6,767,311.5	1,836,437.0	1,007.20	6.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point252	160	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
								point118	161	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
								point117	162	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
								point116	163	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point253	164	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
								point115	165	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
								point114	166	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
								point113	167	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
								point217	168	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
								point218	169	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
								point219	170	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
								point220	171	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
								point221	172	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
								point245	173	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
								point246	174	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
								point247	175	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
								point248	176	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
								point249	177	6,767,675.5	1,836,811.1	1,011.00	6.00					
Barrier56	W	0.00	99.99	0.00			0.00	point256	178	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
								point250	179	6,767,715.0	1,836,788.8	1,013.50	5.00					
Barrier57	W	0.00	99.99	0.00			0.00	point255	180	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
								point251	181	6,767,816.0	1,836,961.2	1,016.00	5.00					

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Calibration 10

BARRIER DESIGN: INPUT HEIGHTS

Barriers										
Name	Type	Heights along Barrier			Length	If Wall	If Berm	Top	Run:Rise	Cost
		Min	Avg	Max						
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$
Existing Wall 5a	W	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777				0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664				0
Existing Wall 4b	W	12.60	12.60	12.60	698	8794				0
Existing Wall 8	W	5.30	5.30	5.30	768	4070				0
Existing Wall 7	W	5.30	5.30	5.30	253	1341				0
Building Barrier 9	W	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	5.00	5.00	5.00	143	716				0
Existing Wall 3	W	5.00	5.00	5.00	160	801				0
Building Barrier 1	W	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	25.00	25.00	25.00	122	3046				0
Building Barrier 4	W	25.00	25.00	25.00	384	9597				0
Building Barrier 5	W	20.00	20.00	20.00	145	2899				0
Building Barrier 6	W	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	15.00	15.00	15.00	145	2168				0
Building Barrier 20	W	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	15.00	15.00	15.00	430	6443				0
Building Barrier 28	W	15.00	15.00	15.00	60	905				0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point27	27	5.30	5.30	5.30	81	427				0
		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 9	W	point44	44	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	point46	46	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	point48	48	5.00	5.00	5.00	78	388				0
		point49	49	5.00	5.00	5.00	65	327				0
Existing Wall 3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 28	W	point97	97	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	point99	99	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	point101	101	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	point103	103	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	point105	105	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	point107	107	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	point111	111	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	point113	113	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	115	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	point117	117	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	point119	119	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	point121	121	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	point123	123	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	point125	125	15.00	15.00	15.00	45	679				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 26	W	point127	127	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	point129	129	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	point131	131	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	point133	133	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	point135	135	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	point137	137	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	point139	139	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	point141	141	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	point143	143	15.00	15.00	15.00	46	687				0
Existing wall 9	W	point97	149	6.00	6.00	6.00	59	351				0
		point98	150	6.00	6.00	6.00	129	771				0
		point99	151	6.00	6.00	6.00	109	654				0
		point100	152	6.00	6.00	6.00	120	720				0
		point101	153	6.00	6.00	6.00	115	687				0
Building Barrier 12	W	point126	155	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	point121	157	6.00	6.00	6.00	54	321				0
		point120	158	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	160	7.00	7.00	7.00	29	201				0
		point118	161	7.00	7.00	7.00	72	507				0
		point117	162	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	164	6.00	6.00	6.00	72	430				0
		point115	165	6.00	6.00	6.00	10	60				0
		point114	166	6.00	6.00	6.00	81	485				0
		point113	167	6.00	6.00	6.00	3	20				0
		point217	168	6.00	6.00	6.00	36	214				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point218	169	6.00	6.00	6.00	9	51				0
		point219	170	6.00	6.00	6.00	27	164				0
		point220	171	6.00	6.00	6.00	3	20				0
		point221	172	6.00	6.00	6.00	8	49				0
		point245	173	6.00	6.00	6.00	81	483				0
		point246	174	6.00	6.00	6.00	124	743				0
		point247	175	6.00	6.00	6.00	44	262				0
		point248	176	6.00	6.00	6.00	72	435				0
Barrier56	W	point256	178	5.00	5.00	5.00	45	227				0
Barrier57	W	point255	180	5.00	5.00	5.00	127	633				0

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.				14 January 2011		
Teak Kim				TNM 2.5		
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:		I-215/Barton Road Interchange				
RUN:		Calibration 10				
Building Row			Points			
Name	Average	Building	No.	Coordinates (ground)		
	Height	Percent		X	Y	Z
	ft	%		ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building11	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

INPUT: RECEIVERS

I-215/Barton Road Interchange

LSA Associates, Inc.							14 January 2011					
Teak Kim							TNM 2.5					
INPUT: RECEIVERS												
PROJECT/CONTRACT:		I-215/Barton Road Interchange										
RUN:		Calibration 10										
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal		
			ft	ft	ft	ft	dBA	dBA	dB	dB		
R-67	1	1	6,766,741.0	1,836,294.1	998.00	5.00	0.00	66	12.0	5.0	Y	
R-68	2	1	6,766,698.5	1,836,227.2	995.00	5.00	0.00	66	12.0	5.0	Y	
R-69/M-10	3	1	6,766,686.0	1,836,171.4	995.00	5.00	0.00	66	12.0	5.0	Y	
R-90	4	1	6,766,453.0	1,836,433.5	992.00	5.00	0.00	66	12.0	5.0	Y	
R-91	5	1	6,766,387.0	1,836,469.0	991.00	5.00	0.00	66	12.0	5.0	Y	
R-92	6	1	6,766,320.5	1,836,505.8	989.00	5.00	0.00	66	12.0	5.0	Y	
R-108	7	1	6,766,541.0	1,836,707.8	991.00	5.00	0.00	66	12.0	5.0	Y	
R-109	8	1	6,766,612.0	1,836,622.0	998.00	5.00	0.00	66	12.0	5.0	Y	
R-110	9	1	6,766,720.0	1,836,587.8	995.00	5.00	0.00	66	12.0	5.0	Y	
R-111	10	1	6,766,824.0	1,836,554.8	997.00	5.00	0.00	66	12.0	5.0	Y	
R-112	11	1	6,766,929.0	1,836,453.1	1,000.00	5.00	0.00	66	12.0	5.0	Y	

INPUT: ROADWAYS

I-215/Barton Road Interchange

LSA Associates, Inc. Teak Kim				14 January 2011 TNM 2.5							
INPUT: ROADWAYS				I-215/Barton Road Interchange			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT:				Calibration 10							
RUN:											
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
I-215 NB Lane 3	36.0	point76	76	6,763,402.0	1,832,218.9	915.20				Average	
		point75	75	6,763,588.5	1,832,466.2	915.20				Average	
		point74	74	6,763,739.5	1,832,664.8	915.60				Average	
		point73	73	6,763,892.0	1,832,859.2	916.50				Average	
		point72	72	6,764,051.5	1,833,044.8	917.70				Average	
		point71	71	6,764,219.0	1,833,227.5	919.20				Average	
		point70	70	6,764,399.5	1,833,422.5	925.20				Average	
		point69	69	6,764,540.5	1,833,573.9	932.10				Average	
		point68	68	6,764,691.0	1,833,736.1	940.00				Average	
		point67	67	6,764,858.5	1,833,916.9	949.00				Average	
		point66	66	6,764,998.5	1,834,069.9	955.20				Average	
		point65	65	6,765,162.0	1,834,245.8	959.20				Average	
		point64	64	6,765,331.0	1,834,427.2	960.40				Average	
		point63	63	6,765,512.5	1,834,623.5	961.20				Average	
		point62	62	6,765,686.0	1,834,810.2	961.90				Average	
		point61	61	6,765,876.0	1,835,015.1	962.30				Average	
		point60	60	6,766,035.5	1,835,186.2	962.90				Average	
		point59	59	6,766,204.0	1,835,368.2	963.00				Average	
		point58	58	6,766,388.0	1,835,567.0	968.10				Average	
		point57	57	6,766,556.0	1,835,748.0	976.00				Average	
		point56	56	6,766,728.5	1,835,933.0	985.00				Average	
		point55	55	6,766,867.0	1,836,084.2	992.00				Average	
		point54	54	6,767,030.5	1,836,259.8	999.10				Average	
		point53	53	6,767,211.0	1,836,453.8	1,004.30				Average	
		point52	52	6,767,393.5	1,836,651.6	1,006.70				Average	

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		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average	
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average	
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average	
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average	
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average	
		point46	46	6,768,365.0	1,837,698.0	998.70				Average	
		point45	45	6,768,518.0	1,837,862.1	995.60				Average	
		point44	44	6,768,674.5	1,838,022.8	993.30				Average	
		point43	43	6,768,823.5	1,838,166.2	990.10				Average	
		point42	42	6,768,980.5	1,838,313.8	985.20				Average	
		point41	41	6,769,152.5	1,838,462.6	979.50				Average	
		point40	40	6,769,332.5	1,838,617.5	973.70				Average	
		point39	39	6,769,526.0	1,838,779.8	966.90					
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average	
		point114	114	6,769,306.0	1,838,640.9	973.60				Average	
		point113	113	6,769,128.0	1,838,488.2	979.80				Average	
		point112	112	6,768,955.5	1,838,338.1	985.60				Average	
		point111	111	6,768,799.0	1,838,190.2	990.80				Average	
		point110	110	6,768,650.0	1,838,046.2	993.50				Average	
		point109	109	6,768,494.0	1,837,885.0	996.00				Average	
		point108	108	6,768,337.5	1,837,718.9	998.70				Average	
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average	
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average	
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average	
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average	
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average	
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average	
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average	
		point100	100	6,767,004.0	1,836,280.2	999.10				Average	
		point99	99	6,766,841.5	1,836,104.6	992.10				Average	
		point98	98	6,766,703.0	1,835,954.8	984.90				Average	
		point97	97	6,766,530.0	1,835,768.2	976.10				Average	
		point96	96	6,766,361.5	1,835,587.1	967.90				Average	
		point95	95	6,766,157.5	1,835,368.2	963.10				Average	
		point94	94	6,766,012.5	1,835,211.8	963.00				Average	
		point93	93	6,765,850.5	1,835,035.8	962.30				Average	
		point92	92	6,765,661.0	1,834,831.2	961.80				Average	
		point91	91	6,765,487.5	1,834,644.8	961.20				Average	
		point90	90	6,765,305.5	1,834,449.4	960.40				Average	

INPUT: ROADWAYS

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		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

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		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00					Average
		point256	256	6,764,014.5	1,835,366.4	953.50					Average
		point255	255	6,764,147.0	1,835,365.4	953.00					Average
		point254	254	6,764,493.5	1,835,375.1	965.50					Average
		point253	253	6,764,793.0	1,835,380.8	979.70					Average
		point252	252	6,765,094.5	1,835,380.8	972.00					Average
		point251	251	6,765,404.5	1,835,380.8	973.00					Average
		point250	250	6,765,697.0	1,835,379.8	977.30					Average
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50					Average
		point421	421	6,766,581.5	1,835,376.4	986.50					Average
		point259	259	6,766,754.0	1,835,377.4	989.00					Average
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100		Average
		point292	292	6,766,902.5	1,835,415.9	992.60					Average
		point291	291	6,766,755.5	1,835,415.0	989.20					Average
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00					Average
		point432	432	6,766,404.5	1,835,412.9	984.70					Average
		point303	303	6,766,337.5	1,835,409.2	985.00					Average
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50					Average
		point312	312	6,765,393.5	1,835,410.8	972.50					Average
		point311	311	6,765,428.5	1,835,587.1	971.00					Average
		point310	310	6,765,470.0	1,835,755.1	970.50					Average
		point309	309	6,765,519.5	1,836,010.5	972.00					Average
		point308	308	6,765,571.5	1,836,274.8	974.00					Average
		point307	307	6,765,596.5	1,836,444.6	976.00					Average
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100		Average
		point403	403	6,765,707.0	1,837,002.5	978.70					Average
		point404	404	6,765,713.5	1,837,015.4	978.00					Average
		point319	319	6,765,725.5	1,837,037.5	977.40					Average
		point318	318	6,765,777.5	1,837,150.5	969.50					Average
		point317	317	6,765,800.5	1,837,183.2	969.50					Average
		point316	316	6,765,829.5	1,837,210.5	969.50					Average
		point315	315	6,765,853.0	1,837,247.2	969.50					Average
		point314	314	6,765,892.0	1,837,349.2	969.50					Average

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		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

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		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

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		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

INPUT: ROADWAYS

I-215/Barton Road Interchange

Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40					
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse SB	12.0	point535	535	6,765,862.0	1,835,377.6	979.00				Average
		point536	536	6,765,848.0	1,835,263.8	975.50				Average
		point537	537	6,765,777.5	1,835,155.6	972.50				Average
		point538	538	6,765,702.5	1,835,060.4	970.50				Average
		point539	539	6,765,620.5	1,834,962.1	969.00				Average
		point540	540	6,765,452.0	1,834,758.2	964.50				
La Crosse (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point550	550	6,765,886.0	1,835,408.9	981.00					
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50					Average
		point37	37	6,763,604.0	1,832,456.6	914.50					Average
		point36	36	6,763,754.5	1,832,654.2	915.10					Average
		point35	35	6,763,905.5	1,832,849.8	916.10					Average
		point34	34	6,764,066.0	1,833,033.0	917.00					Average
		point33	33	6,764,233.5	1,833,215.5	918.50					Average
		point32	32	6,764,413.0	1,833,410.2	925.00					Average
		point31	31	6,764,553.5	1,833,563.0	932.00					Average
		point30	30	6,764,706.0	1,833,725.1	940.00					Average
		point29	29	6,764,871.5	1,833,906.1	949.00					Average
		point28	28	6,765,012.0	1,834,058.8	955.00					Average
		point27	27	6,765,176.5	1,834,233.2	958.90					Average
		point26	26	6,765,345.5	1,834,416.4	960.20					Average
		point25	25	6,765,527.5	1,834,612.0	960.80					Average
		point534	534	6,765,700.5	1,834,797.2	961.60					Average
		point23	23	6,765,891.0	1,835,003.8	962.10					Average
		point22	22	6,766,048.5	1,835,174.6	962.90					Average
		point21	21	6,766,219.5	1,835,357.8	963.20					Average
		point533	533	6,766,311.0	1,835,456.6	965.60					Average
		point20	20	6,766,402.5	1,835,555.5	968.00					Average
		point19	19	6,766,570.5	1,835,735.8	976.00					Average
		point18	18	6,766,741.5	1,835,920.5	985.00					Average
		point17	17	6,766,882.5	1,836,070.9	992.00					Average
		point16	16	6,767,044.5	1,836,249.0	999.00					Average
		point15	15	6,767,225.5	1,836,441.8	1,004.00					Average
		point14	14	6,767,407.5	1,836,639.4	1,006.20					Average
		point13	13	6,767,568.5	1,836,812.4	1,006.40					Average
		point12	12	6,767,719.0	1,836,975.2	1,007.10					Average
		point11	11	6,767,875.5	1,837,142.4	1,007.00					Average
		point10	10	6,768,047.0	1,837,328.5	1,004.90					Average
		point9	9	6,768,198.0	1,837,490.8	1,002.00					Average
		point8	8	6,768,380.0	1,837,686.9	998.40					Average
		point7	7	6,768,531.0	1,837,849.8	995.40					Average
		point6	6	6,768,688.0	1,838,010.4	993.00					Average
		point5	5	6,768,836.5	1,838,152.2	990.00					Average
		point4	4	6,768,994.0	1,838,300.6	985.00					Average
		point3	3	6,769,165.5	1,838,448.9	979.50					Average
		point2	2	6,769,345.5	1,838,603.8	973.60					Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point1	1	6,769,539.0	1,838,765.9	966.40					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50					Average
		point156	156	6,769,292.0	1,838,653.6	973.10					Average
		point155	155	6,769,114.0	1,838,500.6	979.80					Average
		point154	154	6,768,941.5	1,838,350.8	985.80					Average
		point153	153	6,768,787.0	1,838,201.9	991.00					Average
		point152	152	6,768,637.5	1,838,059.1	994.00					Average
		point151	151	6,768,481.5	1,837,899.8	996.50					Average
		point150	150	6,768,324.5	1,837,731.5	998.70					Average
		point149	149	6,768,146.5	1,837,539.2	1,001.90					Average
		point148	148	6,767,994.0	1,837,374.8	1,004.80					Average
		point147	147	6,767,820.5	1,837,188.2	1,006.90					Average
		point146	146	6,767,668.0	1,837,022.6	1,007.10					Average
		point145	145	6,767,517.0	1,836,860.6	1,006.70					Average
		point144	144	6,767,356.0	1,836,686.2	1,006.20					Average
		point532	532	6,767,172.0	1,836,487.9	1,004.00					Average
		point142	142	6,766,991.0	1,836,292.2	998.90					Average
		point141	141	6,766,828.5	1,836,116.8	992.00					Average
		point140	140	6,766,689.5	1,835,966.8	984.50					Average
		point139	139	6,766,517.0	1,835,781.0	976.00					Average
		point138	138	6,766,348.0	1,835,599.4	967.80					Average
		point531	531	6,766,133.0	1,835,368.1	963.30					Average
		point136	136	6,765,999.5	1,835,223.5	962.80					Average
		point135	135	6,765,837.0	1,835,048.1	962.20					Average
		point134	134	6,765,647.5	1,834,843.9	961.70					Average
		point133	133	6,765,474.0	1,834,657.2	960.90					Average
		point132	132	6,765,292.5	1,834,461.8	960.40					Average
		point131	131	6,765,124.5	1,834,280.2	958.70					Average
		point130	130	6,764,960.5	1,834,102.9	954.80					Average
		point129	129	6,764,819.5	1,833,952.1	948.40					Average
		point128	128	6,764,650.5	1,833,769.1	939.80					Average
		point127	127	6,764,500.5	1,833,607.5	932.00					Average
		point126	126	6,764,368.5	1,833,463.8	925.50					Average
		point125	125	6,764,179.0	1,833,259.9	919.50					Average
		point124	124	6,764,013.0	1,833,077.6	918.20					Average
		point123	123	6,763,850.5	1,832,887.6	917.10					Average
		point122	122	6,763,711.5	1,832,715.1	916.30					Average
		point121	121	6,763,546.0	1,832,498.2	915.40					Average
		point120	120	6,763,362.0	1,832,252.2	915.40					

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse NB	12.0	point552	552	6,765,466.0	1,834,747.4	966.00				Average	
		point553	553	6,765,633.5	1,834,955.2	969.00				Average	
		point554	554	6,765,713.0	1,835,053.5	971.00				Average	
		point555	555	6,765,794.0	1,835,144.2	973.00				Average	
		point556	556	6,765,864.5	1,835,255.5	976.00				Average	
		point557	557	6,765,905.5	1,835,377.1	979.00					

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

LSA Associates, Inc.									17 January 2011				
Teak Kim									TNM 2.5				
									Calculated with TNM 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		I-215/Barton Road Interchange											
RUN:		Calibration 10											
BARRIER DESIGN:		INPUT HEIGHTS											
ATMOSPHERICS:		68 deg F, 50% RH											
		Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.											

Receiver												
Name	No.	#DUs	Existing	No Barrier	With Barrier							
			LAeq1h	LAeq1h	Increase over existing	Type	Calculated	Noise Reduction	Calculated	Goal	Calculated	
				Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R-67	1	1	0.0	72.6	66	72.6	12	Snd Lvl	72.6	0.0	5	-5.0
R-68	2	1	0.0	72.6	66	72.6	12	Snd Lvl	72.6	0.0	5	-5.0
R-69/M-10	3	1	0.0	73.9	66	73.9	12	Snd Lvl	73.9	0.0	5	-5.0
R-90	4	1	0.0	61.9	66	61.9	12	----	61.9	0.0	5	-5.0
R-91	5	1	0.0	60.1	66	60.1	12	----	60.1	0.0	5	-5.0
R-92	6	1	0.0	58.5	66	58.5	12	----	58.5	0.0	5	-5.0
R-108	7	1	0.0	60.0	66	60.0	12	----	60.0	0.0	5	-5.0
R-109	8	1	0.0	64.1	66	64.1	12	----	64.1	0.0	5	-5.0
R-110	9	1	0.0	65.5	66	65.5	12	----	65.5	0.0	5	-5.0
R-111	10	1	0.0	68.5	66	68.5	12	Snd Lvl	68.5	0.0	5	-5.0
R-112	11	1	0.0	74.0	66	74.0	12	Snd Lvl	74.0	0.0	5	-5.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		11	0.0	0.0	0.0							
All Impacted		5	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011		
Teak Kim		TNM 2.5		
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:		I-215/Barton Road Interchange		
RUN:		Calibration 10		
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,764,381.5	1,833,279.8	942.00
	2	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,016.5	1,833,967.0	943.00
	6	6,765,092.0	1,834,055.4	945.00
	7	6,765,258.0	1,834,237.6	954.00
	8	6,765,400.0	1,834,395.8	960.00
	9	6,765,541.0	1,834,544.6	964.00
	10	6,765,738.0	1,834,749.4	972.00
Terrain Line6	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	16	6,766,314.0	1,835,368.2	984.00
Terrain Line7	22	6,766,507.0	1,835,493.1	986.00
	23	6,766,573.5	1,835,591.8	987.00
	24	6,766,630.0	1,835,668.0	987.00
	25	6,766,679.5	1,835,723.8	989.00
	26	6,766,758.0	1,835,818.9	990.00
	27	6,766,863.0	1,835,948.1	994.00
	28	6,766,975.0	1,836,081.6	998.00
	29	6,767,078.5	1,836,200.6	1,001.00
	30	6,767,228.0	1,836,360.2	1,004.00
	31	6,767,393.0	1,836,514.6	1,010.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00
	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line15	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00

INPUT: TERRAIN LINES**I-215/Barton Road Interchange**

	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line14	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line11	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
	99	6,766,171.0	1,835,508.8	985.00
	100	6,766,103.5	1,835,420.1	982.00
Terrain Line8	102	6,767,393.0	1,836,514.6	1,010.00
	32	6,767,432.0	1,836,546.8	1,010.00
Terrain Line9	106	6,767,811.0	1,836,956.8	1,015.00
	37	6,767,911.0	1,837,066.2	1,017.00
	38	6,767,981.5	1,837,102.2	1,020.00
Terrain Line5	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,206.5	1,835,144.8	975.00
Terrain Line13	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,149.0	1,836,589.2	992.00
Terrain Line12	125	6,765,595.0	1,835,437.0	980.00
	126	6,765,566.0	1,835,436.2	979.30
	127	6,765,445.5	1,835,448.2	976.50

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011										
Teak Kim		TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:		I-215/Barton Road Interchange										
RUN:		Calibration 10										
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3	point76	76	1389	64	64	53	53	54	0	0	0	0
	point75	75	1389	64	64	53	53	54	0	0	0	0
	point74	74	1389	64	64	53	53	54	0	0	0	0
	point73	73	1389	64	64	53	53	54	0	0	0	0
	point72	72	1389	64	64	53	53	54	0	0	0	0
	point71	71	1389	64	64	53	53	54	0	0	0	0
	point70	70	1389	64	64	53	53	54	0	0	0	0
	point69	69	1389	64	64	53	53	54	0	0	0	0
	point68	68	1389	64	64	53	53	54	0	0	0	0
	point67	67	1389	64	64	53	53	54	0	0	0	0
	point66	66	1389	64	64	53	53	54	0	0	0	0
	point65	65	1389	64	64	53	53	54	0	0	0	0
	point64	64	1389	64	64	53	53	54	0	0	0	0
	point63	63	1389	64	64	53	53	54	0	0	0	0
	point62	62	1389	64	64	53	53	54	0	0	0	0
	point61	61	1389	64	64	53	53	54	0	0	0	0
	point60	60	1389	64	64	53	53	54	0	0	0	0
	point59	59	1389	64	64	53	53	54	0	0	0	0
	point58	58	1389	64	64	53	53	54	0	0	0	0
	point57	57	1389	64	64	53	53	54	0	0	0	0
	point56	56	1389	64	64	53	53	54	0	0	0	0
	point55	55	1389	64	64	53	53	54	0	0	0	0
	point54	54	1389	64	64	53	53	54	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1389	64	64	53	53	54	0	0	0	0
	point52	52	1389	64	64	53	53	54	0	0	0	0
	point51	51	1389	64	64	53	53	54	0	0	0	0
	point50	50	1389	64	64	53	53	54	0	0	0	0
	point49	49	1389	64	64	53	53	54	0	0	0	0
	point48	48	1389	64	64	53	53	54	0	0	0	0
	point47	47	1389	64	64	53	53	54	0	0	0	0
	point46	46	1389	64	64	53	53	54	0	0	0	0
	point45	45	1389	64	64	53	53	54	0	0	0	0
	point44	44	1389	64	64	53	53	54	0	0	0	0
	point43	43	1389	64	64	53	53	54	0	0	0	0
	point42	42	1389	64	64	53	53	54	0	0	0	0
	point41	41	1389	64	64	53	53	54	0	0	0	0
	point40	40	1389	64	64	53	53	54	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1340	64	33	53	60	54	0	0	0	0
	point114	114	1340	64	33	53	60	54	0	0	0	0
	point113	113	1340	64	33	53	60	54	0	0	0	0
	point112	112	1340	64	33	53	60	54	0	0	0	0
	point111	111	1340	64	33	53	60	54	0	0	0	0
	point110	110	1340	64	33	53	60	54	0	0	0	0
	point109	109	1340	64	33	53	60	54	0	0	0	0
	point108	108	1340	64	33	53	60	54	0	0	0	0
	point107	107	1340	64	33	53	60	54	0	0	0	0
	point106	106	1340	64	33	53	60	54	0	0	0	0
	point105	105	1340	64	33	53	60	54	0	0	0	0
	point104	104	1340	64	33	53	60	54	0	0	0	0
	point103	103	1340	64	33	53	60	54	0	0	0	0
	point102	102	1340	64	33	53	60	54	0	0	0	0
	point101	101	1340	64	33	53	60	54	0	0	0	0
	point100	100	1340	64	33	53	60	54	0	0	0	0
	point99	99	1340	64	33	53	60	54	0	0	0	0
	point98	98	1340	64	33	53	60	54	0	0	0	0
	point97	97	1340	64	33	53	60	54	0	0	0	0
	point96	96	1340	64	33	53	60	54	0	0	0	0
	point95	95	1340	64	33	53	60	54	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1340	64	33	53	60	54	0	0	0	0
	point93	93	1340	64	33	53	60	54	0	0	0	0
	point92	92	1340	64	33	53	60	54	0	0	0	0
	point91	91	1340	64	33	53	60	54	0	0	0	0
	point90	90	1340	64	33	53	60	54	0	0	0	0
	point89	89	1340	64	33	53	60	54	0	0	0	0
	point88	88	1340	64	33	53	60	54	0	0	0	0
	point87	87	1340	64	33	53	60	54	0	0	0	0
	point86	86	1340	64	33	53	60	54	0	0	0	0
	point85	85	1340	64	33	53	60	54	0	0	0	0
	point84	84	1340	64	33	53	60	54	0	0	0	0
	point83	83	1340	64	33	53	60	54	0	0	0	0
	point82	82	1340	64	33	53	60	54	0	0	0	0
	point81	81	1340	64	33	53	60	54	0	0	0	0
	point80	80	1340	64	33	53	60	54	0	0	0	0
	point79	79	1340	64	33	53	60	54	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	352	45	28	45	0	0	0	0	0	0
	point200	200	352	45	28	45	0	0	0	0	0	0
	point201	201	352	45	28	45	0	0	0	0	0	0
	point202	202	352	45	28	45	0	0	0	0	0	0
	point203	203	352	45	28	45	0	0	0	0	0	0
	point204	204	352	45	28	45	0	0	0	0	0	0
	point205	205	352	45	28	45	0	0	0	0	0	0
	point206	206	352	45	28	45	0	0	0	0	0	0
	point207	207	352	45	28	45	0	0	0	0	0	0
	point208	208	246	45	20	45	0	0	0	0	0	0
	point209	209	246	45	20	45	0	0	0	0	0	0
	point210	210	246	45	20	45	0	0	0	0	0	0
	point435	435	246	45	20	45	0	0	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	0	0	0	0	0	0	0	0	0	0
	point223	223	0	0	0	0	0	0	0	0	0	0
	point224	224	0	0	0	0	0	0	0	0	0	0
	point225	225	0	0	0	0	0	0	0	0	0	0
	point226	226	0	0	0	0	0	0	0	0	0	0
	point227	227	0	0	0	0	0	0	0	0	0	0
	point228	228	0	0	0	0	0	0	0	0	0	0
	point420	420	0	0	0	0	0	0	0	0	0	0
	point229	229										
Barton EB	point257	257	0	0	0	0	0	0	0	0	0	0
	point256	256	0	0	0	0	0	0	0	0	0	0
	point255	255	0	0	0	0	0	0	0	0	0	0
	point254	254	0	0	0	0	0	0	0	0	0	0
	point253	253	0	0	0	0	0	0	0	0	0	0
	point252	252	0	0	0	0	0	0	0	0	0	0
	point251	251	0	0	0	0	0	0	0	0	0	0
	point250	250	0	0	0	0	0	0	0	0	0	0
	point436	436										
Barton EB	point260	260	0	0	0	0	0	0	0	0	0	0
	point421	421	0	0	0	0	0	0	0	0	0	0
	point259	259	0	0	0	0	0	0	0	0	0	0
	point258	258										
Barton WB	point397	397	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point291	291	0	0	0	0	0	0	0	0	0	0
	point290	290										
Barton WB	point304	304	0	0	0	0	0	0	0	0	0	0
	point432	432	0	0	0	0	0	0	0	0	0	0
	point303	303	0	0	0	0	0	0	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	0	0	0	0	0	0	0	0	0	0
	point312	312	0	0	0	0	0	0	0	0	0	0
	point311	311	0	0	0	0	0	0	0	0	0	0
	point310	310	0	0	0	0	0	0	0	0	0	0
	point309	309	0	0	0	0	0	0	0	0	0	0
	point308	308	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	0	0	0	0	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	0	0	0	0	0	0	0	0	0	0
	point403	403	0	0	0	0	0	0	0	0	0	0
	point404	404	0	0	0	0	0	0	0	0	0	0
	point319	319	0	0	0	0	0	0	0	0	0	0
	point318	318	0	0	0	0	0	0	0	0	0	0
	point317	317	0	0	0	0	0	0	0	0	0	0
	point316	316	0	0	0	0	0	0	0	0	0	0
	point315	315	0	0	0	0	0	0	0	0	0	0
	point314	314	0	0	0	0	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	0	0	0	0	0	0	0	0	0	0
	point406	406	0	0	0	0	0	0	0	0	0	0
	point407	407	0	0	0	0	0	0	0	0	0	0
	point326	326	0	0	0	0	0	0	0	0	0	0
	point325	325	0	0	0	0	0	0	0	0	0	0
	point324	324	0	0	0	0	0	0	0	0	0	0
	point323	323	0	0	0	0	0	0	0	0	0	0
	point322	322	0	0	0	0	0	0	0	0	0	0
	point321	321	0	0	0	0	0	0	0	0	0	0
	point425	425	0	0	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	0	0	0	0	0	0	0	0	0	0
	point332	332	0	0	0	0	0	0	0	0	0	0
	point331	331	0	0	0	0	0	0	0	0	0	0
	point330	330	0	0	0	0	0	0	0	0	0	0
	point329	329	0	0	0	0	0	0	0	0	0	0
	point328	328	0	0	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB	point426	426	0	0	0	0	0	0	0	0	0	0
	point363	363	0	0	0	0	0	0	0	0	0	0
	point364	364	0	0	0	0	0	0	0	0	0	0
	point365	365	0	0	0	0	0	0	0	0	0	0
	point366	366	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	0	0	0	0	0	0	0	0	0	0
	point368	368	0	0	0	0	0	0	0	0	0	0
	point430	430	0	0	0	0	0	0	0	0	0	0
	point369	369										
Michigan NB	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB	point431	431	0	0	0	0	0	0	0	0	0	0
	point374	374	0	0	0	0	0	0	0	0	0	0
	point375	375	0	0	0	0	0	0	0	0	0	0
	point376	376	0	0	0	0	0	0	0	0	0	0
	point377	377	0	0	0	0	0	0	0	0	0	0
	point378	378	0	0	0	0	0	0	0	0	0	0
	point379	379	0	0	0	0	0	0	0	0	0	0
	point380	380										
Michigan SB	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB Ln	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point441	441	0	0	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	0	0	0	0	0	0	0	0	0	0
	point249	249	0	0	0	0	0	0	0	0	0	0
	point248	248	0	0	0	0	0	0	0	0	0	0
	point247	247										
Barton WB	point445	445	0	0	0	0	0	0	0	0	0	0
	point434	434	0	0	0	0	0	0	0	0	0	0
	point301	301	0	0	0	0	0	0	0	0	0	0
	point300	300	0	0	0	0	0	0	0	0	0	0
	point422	422	0	0	0	0	0	0	0	0	0	0
	point423	423	0	0	0	0	0	0	0	0	0	0
	point299	299	0	0	0	0	0	0	0	0	0	0
	point298	298	0	0	0	0	0	0	0	0	0	0
	point297	297	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point294	294										
Barton EB	point398	398	0	0	0	0	0	0	0	0	0	0
	point428	428	0	0	0	0	0	0	0	0	0	0
	point429	429	0	0	0	0	0	0	0	0	0	0
	point268	268	0	0	0	0	0	0	0	0	0	0
	point267	267	0	0	0	0	0	0	0	0	0	0
	point266	266	0	0	0	0	0	0	0	0	0	0
	point265	265	0	0	0	0	0	0	0	0	0	0
	point264	264	0	0	0	0	0	0	0	0	0	0
	point263	263	0	0	0	0	0	0	0	0	0	0
	point262	262	0	0	0	0	0	0	0	0	0	0
	point439	439	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	0	0	0	0	0	0	0	0	0	0
	point269	269										
Barton WB	point280	280	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point438	438	0	0	0	0	0	0	0	0	0	0
	point289	289	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point286	286	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point412	412	0	0	0	0	0	0	0	0	0	0
	point413	413	0	0	0	0	0	0	0	0	0	0
	point283	283	0	0	0	0	0	0	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point462	462	0	0	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	280	64	16	53	8	54	0	0	0	0
	point239	239	280	64	16	53	8	54	0	0	0	0
	point238	238	280	64	16	53	8	54	0	0	0	0
	point237	237	280	64	16	53	8	54	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point236	236	280	64	16	53	8	54	0	0	0	0
	point235	235	280	64	16	53	8	54	0	0	0	0
	point234	234	280	64	16	53	8	54	0	0	0	0
	point233	233	280	64	16	53	8	54	0	0	0	0
	point232	232	280	64	16	53	8	54	0	0	0	0
	point231	231	280	64	16	53	8	54	0	0	0	0
	point450	450	280	64	16	53	8	54	0	0	0	0
	point451	451	280	64	16	53	8	54	0	0	0	0
	point452	452	280	64	16	53	8	54	0	0	0	0
	point453	453	280	64	16	53	8	54	0	0	0	0
	point454	454	280	64	16	53	8	54	0	0	0	0
	point456	456	280	64	16	53	8	54	0	0	0	0
	point7	522	280	64	16	53	8	54	0	0	0	0
	point6	523	280	64	16	53	8	54	0	0	0	0
	point5	524	280	64	16	53	8	54	0	0	0	0
	point4	525	280	64	16	53	8	54	0	0	0	0
	point3	526	280	64	16	53	8	54	0	0	0	0
	point2	527	280	64	16	53	8	54	0	0	0	0
	point1	528										
La Crosse SB	point535	535	0	0	0	0	0	0	0	0	0	0
	point536	536	0	0	0	0	0	0	0	0	0	0
	point537	537	0	0	0	0	0	0	0	0	0	0
	point538	538	0	0	0	0	0	0	0	0	0	0
	point539	539	0	0	0	0	0	0	0	0	0	0
	point540	540										
La Crosse (northern)	point551	551	106	45	8	45	0	0	0	0	0	0
	point547	547	106	45	8	45	0	0	0	0	0	0
	point548	548	106	45	8	45	0	0	0	0	0	0
	point549	549	106	45	8	45	0	0	0	0	0	0
	point550	550										
I-215 NB Lanes 1 & 2	point38	38	2779	64	128	53	107	54	0	0	0	0
	point37	37	2779	64	128	53	107	54	0	0	0	0
	point36	36	2779	64	128	53	107	54	0	0	0	0
	point35	35	2779	64	128	53	107	54	0	0	0	0
	point34	34	2779	64	128	53	107	54	0	0	0	0
	point33	33	2779	64	128	53	107	54	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point32	32	2779	64	128	53	107	54	0	0	0	0
	point31	31	2779	64	128	53	107	54	0	0	0	0
	point30	30	2779	64	128	53	107	54	0	0	0	0
	point29	29	2779	64	128	53	107	54	0	0	0	0
	point28	28	2779	64	128	53	107	54	0	0	0	0
	point27	27	2779	64	128	53	107	54	0	0	0	0
	point26	26	2779	64	128	53	107	54	0	0	0	0
	point25	25	2779	64	128	53	107	54	0	0	0	0
	point534	534	2779	64	128	53	107	54	0	0	0	0
	point23	23	2779	64	128	53	107	54	0	0	0	0
	point22	22	2779	64	128	53	107	54	0	0	0	0
	point21	21	2779	64	128	53	107	54	0	0	0	0
	point533	533	2779	64	128	53	107	54	0	0	0	0
	point20	20	2779	64	128	53	107	54	0	0	0	0
	point19	19	2779	64	128	53	107	54	0	0	0	0
	point18	18	2779	64	128	53	107	54	0	0	0	0
	point17	17	2779	64	128	53	107	54	0	0	0	0
	point16	16	2779	64	128	53	107	54	0	0	0	0
	point15	15	2779	64	128	53	107	54	0	0	0	0
	point14	14	2779	64	128	53	107	54	0	0	0	0
	point13	13	2779	64	128	53	107	54	0	0	0	0
	point12	12	2779	64	128	53	107	54	0	0	0	0
	point11	11	2779	64	128	53	107	54	0	0	0	0
	point10	10	2779	64	128	53	107	54	0	0	0	0
	point9	9	2779	64	128	53	107	54	0	0	0	0
	point8	8	2779	64	128	53	107	54	0	0	0	0
	point7	7	2779	64	128	53	107	54	0	0	0	0
	point6	6	2779	64	128	53	107	54	0	0	0	0
	point5	5	2779	64	128	53	107	54	0	0	0	0
	point4	4	2779	64	128	53	107	54	0	0	0	0
	point3	3	2779	64	128	53	107	54	0	0	0	0
	point2	2	2779	64	128	53	107	54	0	0	0	0
	point1	1										
I-215 SB Lanes 1 & 2	point157	157	2680	64	67	53	120	54	0	0	0	0
	point156	156	2680	64	67	53	120	54	0	0	0	0
	point155	155	2680	64	67	53	120	54	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point154	154	2680	64	67	53	120	54	0	0	0	0
	point153	153	2680	64	67	53	120	54	0	0	0	0
	point152	152	2680	64	67	53	120	54	0	0	0	0
	point151	151	2680	64	67	53	120	54	0	0	0	0
	point150	150	2680	64	67	53	120	54	0	0	0	0
	point149	149	2680	64	67	53	120	54	0	0	0	0
	point148	148	2680	64	67	53	120	54	0	0	0	0
	point147	147	2680	64	67	53	120	54	0	0	0	0
	point146	146	2680	64	67	53	120	54	0	0	0	0
	point145	145	2680	64	67	53	120	54	0	0	0	0
	point144	144	2680	64	67	53	120	54	0	0	0	0
	point532	532	2680	64	67	53	120	54	0	0	0	0
	point142	142	2680	64	67	53	120	54	0	0	0	0
	point141	141	2680	64	67	53	120	54	0	0	0	0
	point140	140	2680	64	67	53	120	54	0	0	0	0
	point139	139	2680	64	67	53	120	54	0	0	0	0
	point138	138	2680	64	67	53	120	54	0	0	0	0
	point531	531	2680	64	67	53	120	54	0	0	0	0
	point136	136	2680	64	67	53	120	54	0	0	0	0
	point135	135	2680	64	67	53	120	54	0	0	0	0
	point134	134	2680	64	67	53	120	54	0	0	0	0
	point133	133	2680	64	67	53	120	54	0	0	0	0
	point132	132	2680	64	67	53	120	54	0	0	0	0
	point131	131	2680	64	67	53	120	54	0	0	0	0
	point130	130	2680	64	67	53	120	54	0	0	0	0
	point129	129	2680	64	67	53	120	54	0	0	0	0
	point128	128	2680	64	67	53	120	54	0	0	0	0
	point127	127	2680	64	67	53	120	54	0	0	0	0
	point126	126	2680	64	67	53	120	54	0	0	0	0
	point125	125	2680	64	67	53	120	54	0	0	0	0
	point124	124	2680	64	67	53	120	54	0	0	0	0
	point123	123	2680	64	67	53	120	54	0	0	0	0
	point122	122	2680	64	67	53	120	54	0	0	0	0
	point121	121	2680	64	67	53	120	54	0	0	0	0
	point120	120										
La Crosse NB	point552	552	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**I-215/Barton Road Interchange**

	point553	553	0	0	0	0	0	0	0	0	0	0
	point554	554	0	0	0	0	0	0	0	0	0	0
	point555	555	0	0	0	0	0	0	0	0	0	0
	point556	556	0	0	0	0	0	0	0	0	0	0
	point557	557										

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Future NoBuild Conditions

Barrier									Points										
Name	Type	Height		If Wall	If Berm	Run:Rise		Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment			On	Important
		Min	Max	\$ per Unit Area	\$ per Unit Vol.	Top Width	ft:ft	\$ per Unit Length			X	Y	Z	at Point	Seg	Ht	Perturbs		
		ft	ft	\$/sq ft	\$/cu yd	ft	ft:ft	\$/ft			ft	ft	ft	ft	ft				
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0		
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					

INPUT: BARRIERS

I-215/Barton Road Interchange

Existing Wall 1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0		
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0		
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00					
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0		
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0		
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00					
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0		
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0		
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0		
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0		
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00					
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0		
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00					
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0		
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0		
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00					
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0		
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	97	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	96	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	99	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	98	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	101	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	100	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 7	W	0.00	99.99	0.00				0.00	point103	103	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		

INPUT: BARRIERS

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									point102	102	6,768,134.5	1,835,263.8	1,022.00	15.00				
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	105	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	104	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	107	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	106	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	111	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	110	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	113	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	112	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	115	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	114	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point117	117	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point116	116	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point119	119	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point118	118	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point121	121	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point120	120	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	123	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	122	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point125	125	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point124	124	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point127	127	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point126	126	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point129	129	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point128	128	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 31	W	0.00	99.99	0.00			0.00	point131	131	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point130	130	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00			0.00	point133	133	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point132	132	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00			0.00	point135	135	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point134	134	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00			0.00	point137	137	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point136	136	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00			0.00	point139	139	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point138	138	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00			0.00	point141	141	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point140	140	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00			0.00	point143	143	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point142	142	6,765,577.0	1,837,024.2	979.30	15.00					
Existing wall 9	W	0.00	99.99	0.00			0.00	point97	149	6,766,517.5	1,835,485.5	986.00	6.00	0.00	0	0		
								point98	150	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
								point99	151	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
								point100	152	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
								point101	153	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
								point102	154	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	155	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	156	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	157	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	158	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point119	159	6,767,311.5	1,836,437.0	1,007.20	6.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point252	160	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
								point118	161	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
								point117	162	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
								point116	163	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point253	164	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
								point115	165	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
								point114	166	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
								point113	167	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
								point217	168	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
								point218	169	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
								point219	170	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
								point220	171	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
								point221	172	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
								point245	173	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
								point246	174	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
								point247	175	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
								point248	176	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
								point249	177	6,767,675.5	1,836,811.1	1,011.00	6.00					
Barrier56	W	0.00	99.99	0.00			0.00	point256	178	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
								point250	179	6,767,715.0	1,836,788.8	1,013.50	5.00					
Barrier57	W	0.00	99.99	0.00			0.00	point255	180	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
								point251	181	6,767,816.0	1,836,961.2	1,016.00	5.00					

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.	14 January 2011
Teak Kim	TNM 2.5

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Future NoBuild Conditions

BARRIER DESIGN: INPUT HEIGHTS

Barriers											
Name	Type	Heights along Barrier			Length	If Wall		If Berm		Run:Rise	Cost
		Min	Avg	Max		Area	Volume	Top Width			
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$	
Existing Wall 5a	W	5.30	5.30	5.30	252	1336				0	
Existing Wall 5b	W	6.00	6.00	6.00	963	5777				0	
Existing Wall 4a	W	8.00	8.00	8.00	208	1664				0	
Existing Wall 4b	W	12.60	12.60	12.60	698	8794				0	
Existing Wall 8	W	5.30	5.30	5.30	768	4070				0	
Existing Wall 7	W	5.30	5.30	5.30	253	1341				0	
Building Barrier 9	W	15.00	15.00	15.00	298	4475				0	
Existing Wall 1	W	6.00	6.00	6.00	407	2443				0	
Existing Wall 2	W	5.00	5.00	5.00	143	716				0	
Existing Wall 3	W	5.00	5.00	5.00	160	801				0	
Building Barrier 1	W	20.00	20.00	20.00	144	2875				0	
Building Barrier 2	W	25.00	25.00	25.00	137	3432				0	
Building Barrier 3	W	25.00	25.00	25.00	122	3046				0	
Building Barrier 4	W	25.00	25.00	25.00	384	9597				0	
Building Barrier 5	W	20.00	20.00	20.00	145	2899				0	
Building Barrier 6	W	15.00	15.00	15.00	79	1178				0	
Building Barrier 18	W	15.00	15.00	15.00	116	1744				0	
Building Barrier 16	W	15.00	15.00	15.00	92	1379				0	
Building Barrier 19	W	15.00	15.00	15.00	145	2168				0	
Building Barrier 20	W	15.00	15.00	15.00	51	770				0	
Building Barrier 17	W	15.00	15.00	15.00	222	3330				0	
Building Barrier 8	W	15.00	15.00	15.00	430	6443				0	
Building Barrier 28	W	15.00	15.00	15.00	60	905				0	

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point27	27	5.30	5.30	5.30	81	427				0
		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 9	W	point44	44	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	point46	46	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	point48	48	5.00	5.00	5.00	78	388				0
		point49	49	5.00	5.00	5.00	65	327				0
Existing Wall 3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 28	W	point97	97	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	point99	99	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	point101	101	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	point103	103	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	point105	105	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	point107	107	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	point111	111	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	point113	113	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	115	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	point117	117	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	point119	119	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	point121	121	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	point123	123	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	point125	125	15.00	15.00	15.00	45	679				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 26	W	point127	127	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	point129	129	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	point131	131	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	point133	133	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	point135	135	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	point137	137	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	point139	139	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	point141	141	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	point143	143	15.00	15.00	15.00	46	687				0
Existing wall 9	W	point97	149	6.00	6.00	6.00	59	351				0
		point98	150	6.00	6.00	6.00	129	771				0
		point99	151	6.00	6.00	6.00	109	654				0
		point100	152	6.00	6.00	6.00	120	720				0
		point101	153	6.00	6.00	6.00	115	687				0
Building Barrier 12	W	point126	155	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	point121	157	6.00	6.00	6.00	54	321				0
		point120	158	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	160	7.00	7.00	7.00	29	201				0
		point118	161	7.00	7.00	7.00	72	507				0
		point117	162	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	164	6.00	6.00	6.00	72	430				0
		point115	165	6.00	6.00	6.00	10	60				0
		point114	166	6.00	6.00	6.00	81	485				0
		point113	167	6.00	6.00	6.00	3	20				0
		point217	168	6.00	6.00	6.00	36	214				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point218	169	6.00	6.00	6.00	9	51				0
		point219	170	6.00	6.00	6.00	27	164				0
		point220	171	6.00	6.00	6.00	3	20				0
		point221	172	6.00	6.00	6.00	8	49				0
		point245	173	6.00	6.00	6.00	81	483				0
		point246	174	6.00	6.00	6.00	124	743				0
		point247	175	6.00	6.00	6.00	44	262				0
		point248	176	6.00	6.00	6.00	72	435				0
Barrier56	W	point256	178	5.00	5.00	5.00	45	227				0
Barrier57	W	point255	180	5.00	5.00	5.00	127	633				0

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.				14 January 2011		
Teak Kim				TNM 2.5		
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:		I-215/Barton Road Interchange				
RUN:		Future NoBuild Conditions				
Building Row			Points			
Name	Average	Building	No.	Coordinates (ground)		
	Height	Percent		X	Y	Z
	ft	%		ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building11	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

INPUT: RECEIVERS

I-215/Barton Road Interchange

LSA Associates, Inc.							14 January 2011				
Teak Kim							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:		I-215/Barton Road Interchange									
RUN:		Future NoBuild Conditions									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact LAeq1h	Criteria Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-11	1	1	6,767,160.5	1,836,693.6	996.50	5.00	0.00	66	12.0	5.0	
R-113	2	1	6,767,159.0	1,836,632.9	996.00	5.00	0.00	66	12.0	5.0	
R-114	3	1	6,767,164.0	1,836,736.6	997.50	5.00	0.00	66	12.0	5.0	
R-115	4	1	6,767,303.5	1,836,841.5	1,010.00	5.00	0.00	66	12.0	5.0	
R-121	5	1	6,767,059.0	1,836,750.2	1,000.00	5.00	0.00	66	12.0	5.0	
R-122	6	1	6,767,191.5	1,836,881.5	1,009.00	5.00	0.00	66	12.0	5.0	
R-123	7	1	6,767,257.0	1,836,858.2	1,010.00	5.00	0.00	66	12.0	5.0	
R-124	8	1	6,767,094.5	1,836,933.1	1,007.00	5.00	0.00	66	12.0	5.0	

INPUT: ROADWAYS

I-215/Barton Road Interchange

LSA Associates, Inc. Teak Kim				14 January 2011 TNM 2.5							
INPUT: ROADWAYS				I-215/Barton Road Interchange			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT:				I-215/Barton Road Interchange							
RUN:				Future NoBuild Conditions							
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
I-215 NB Lane 3	36.0	point76	76	6,763,402.0	1,832,218.9	915.20				Average	
		point75	75	6,763,588.5	1,832,466.2	915.20				Average	
		point74	74	6,763,739.5	1,832,664.8	915.60				Average	
		point73	73	6,763,892.0	1,832,859.2	916.50				Average	
		point72	72	6,764,051.5	1,833,044.8	917.70				Average	
		point71	71	6,764,219.0	1,833,227.5	919.20				Average	
		point70	70	6,764,399.5	1,833,422.5	925.20				Average	
		point69	69	6,764,540.5	1,833,573.9	932.10				Average	
		point68	68	6,764,691.0	1,833,736.1	940.00				Average	
		point67	67	6,764,858.5	1,833,916.9	949.00				Average	
		point66	66	6,764,998.5	1,834,069.9	955.20				Average	
		point65	65	6,765,162.0	1,834,245.8	959.20				Average	
		point64	64	6,765,331.0	1,834,427.2	960.40				Average	
		point63	63	6,765,512.5	1,834,623.5	961.20				Average	
		point62	62	6,765,686.0	1,834,810.2	961.90				Average	
		point61	61	6,765,876.0	1,835,015.1	962.30				Average	
		point60	60	6,766,035.5	1,835,186.2	962.90				Average	
		point59	59	6,766,204.0	1,835,368.2	963.00				Average	
		point58	58	6,766,388.0	1,835,567.0	968.10				Average	
		point57	57	6,766,556.0	1,835,748.0	976.00				Average	
		point56	56	6,766,728.5	1,835,933.0	985.00				Average	
		point55	55	6,766,867.0	1,836,084.2	992.00				Average	
		point54	54	6,767,030.5	1,836,259.8	999.10				Average	
		point53	53	6,767,211.0	1,836,453.8	1,004.30				Average	
		point52	52	6,767,393.5	1,836,651.6	1,006.70				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average	
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average	
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average	
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average	
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average	
		point46	46	6,768,365.0	1,837,698.0	998.70				Average	
		point45	45	6,768,518.0	1,837,862.1	995.60				Average	
		point44	44	6,768,674.5	1,838,022.8	993.30				Average	
		point43	43	6,768,823.5	1,838,166.2	990.10				Average	
		point42	42	6,768,980.5	1,838,313.8	985.20				Average	
		point41	41	6,769,152.5	1,838,462.6	979.50				Average	
		point40	40	6,769,332.5	1,838,617.5	973.70				Average	
		point39	39	6,769,526.0	1,838,779.8	966.90					
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average	
		point114	114	6,769,306.0	1,838,640.9	973.60				Average	
		point113	113	6,769,128.0	1,838,488.2	979.80				Average	
		point112	112	6,768,955.5	1,838,338.1	985.60				Average	
		point111	111	6,768,799.0	1,838,190.2	990.80				Average	
		point110	110	6,768,650.0	1,838,046.2	993.50				Average	
		point109	109	6,768,494.0	1,837,885.0	996.00				Average	
		point108	108	6,768,337.5	1,837,718.9	998.70				Average	
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average	
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average	
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average	
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average	
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average	
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average	
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average	
		point100	100	6,767,004.0	1,836,280.2	999.10				Average	
		point99	99	6,766,841.5	1,836,104.6	992.10				Average	
		point98	98	6,766,703.0	1,835,954.8	984.90				Average	
		point97	97	6,766,530.0	1,835,768.2	976.10				Average	
		point96	96	6,766,361.5	1,835,587.1	967.90				Average	
		point95	95	6,766,157.5	1,835,368.2	963.10				Average	
		point94	94	6,766,012.5	1,835,211.8	963.00				Average	
		point93	93	6,765,850.5	1,835,035.8	962.30				Average	
		point92	92	6,765,661.0	1,834,831.2	961.80				Average	
		point91	91	6,765,487.5	1,834,644.8	961.20				Average	
		point90	90	6,765,305.5	1,834,449.4	960.40				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

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		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00					Average
		point256	256	6,764,014.5	1,835,366.4	953.50					Average
		point255	255	6,764,147.0	1,835,365.4	953.00					Average
		point254	254	6,764,493.5	1,835,375.1	965.50					Average
		point253	253	6,764,793.0	1,835,380.8	979.70					Average
		point252	252	6,765,094.5	1,835,380.8	972.00					Average
		point251	251	6,765,404.5	1,835,380.8	973.00					Average
		point250	250	6,765,697.0	1,835,379.8	977.30					Average
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50					Average
		point421	421	6,766,581.5	1,835,376.4	986.50					Average
		point259	259	6,766,754.0	1,835,377.4	989.00					Average
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100		Average
		point292	292	6,766,902.5	1,835,415.9	992.60					Average
		point291	291	6,766,755.5	1,835,415.0	989.20					Average
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00					Average
		point432	432	6,766,404.5	1,835,412.9	984.70					Average
		point303	303	6,766,337.5	1,835,409.2	985.00					Average
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50					Average
		point312	312	6,765,393.5	1,835,410.8	972.50					Average
		point311	311	6,765,428.5	1,835,587.1	971.00					Average
		point310	310	6,765,470.0	1,835,755.1	970.50					Average
		point309	309	6,765,519.5	1,836,010.5	972.00					Average
		point308	308	6,765,571.5	1,836,274.8	974.00					Average
		point307	307	6,765,596.5	1,836,444.6	976.00					Average
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100		Average
		point403	403	6,765,707.0	1,837,002.5	978.70					Average
		point404	404	6,765,713.5	1,837,015.4	978.00					Average
		point319	319	6,765,725.5	1,837,037.5	977.40					Average
		point318	318	6,765,777.5	1,837,150.5	969.50					Average
		point317	317	6,765,800.5	1,837,183.2	969.50					Average
		point316	316	6,765,829.5	1,837,210.5	969.50					Average
		point315	315	6,765,853.0	1,837,247.2	969.50					Average
		point314	314	6,765,892.0	1,837,349.2	969.50					Average

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		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

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		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

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		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

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		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

INPUT: ROADWAYS

I-215/Barton Road Interchange

Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40					
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse SB	12.0	point535	535	6,765,862.0	1,835,377.6	979.00				Average
		point536	536	6,765,848.0	1,835,263.8	975.50				Average
		point537	537	6,765,777.5	1,835,155.6	972.50				Average
		point538	538	6,765,702.5	1,835,060.4	970.50				Average
		point539	539	6,765,620.5	1,834,962.1	969.00				Average
		point540	540	6,765,452.0	1,834,758.2	964.50				
La Crosse Avenue (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point550	550	6,765,886.0	1,835,408.9	981.00					
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50					Average
		point37	37	6,763,604.0	1,832,456.6	914.50					Average
		point36	36	6,763,754.5	1,832,654.2	915.10					Average
		point35	35	6,763,905.5	1,832,849.8	916.10					Average
		point34	34	6,764,066.0	1,833,033.0	917.00					Average
		point33	33	6,764,233.5	1,833,215.5	918.50					Average
		point32	32	6,764,413.0	1,833,410.2	925.00					Average
		point31	31	6,764,553.5	1,833,563.0	932.00					Average
		point30	30	6,764,706.0	1,833,725.1	940.00					Average
		point29	29	6,764,871.5	1,833,906.1	949.00					Average
		point28	28	6,765,012.0	1,834,058.8	955.00					Average
		point27	27	6,765,176.5	1,834,233.2	958.90					Average
		point26	26	6,765,345.5	1,834,416.4	960.20					Average
		point25	25	6,765,527.5	1,834,612.0	960.80					Average
		point534	534	6,765,700.5	1,834,797.2	961.60					Average
		point23	23	6,765,891.0	1,835,003.8	962.10					Average
		point22	22	6,766,048.5	1,835,174.6	962.90					Average
		point21	21	6,766,219.5	1,835,357.8	963.20					Average
		point533	533	6,766,311.0	1,835,456.6	965.60					Average
		point20	20	6,766,402.5	1,835,555.5	968.00					Average
		point19	19	6,766,570.5	1,835,735.8	976.00					Average
		point18	18	6,766,741.5	1,835,920.5	985.00					Average
		point17	17	6,766,882.5	1,836,070.9	992.00					Average
		point16	16	6,767,044.5	1,836,249.0	999.00					Average
		point15	15	6,767,225.5	1,836,441.8	1,004.00					Average
		point14	14	6,767,407.5	1,836,639.4	1,006.20					Average
		point13	13	6,767,568.5	1,836,812.4	1,006.40					Average
		point12	12	6,767,719.0	1,836,975.2	1,007.10					Average
		point11	11	6,767,875.5	1,837,142.4	1,007.00					Average
		point10	10	6,768,047.0	1,837,328.5	1,004.90					Average
		point9	9	6,768,198.0	1,837,490.8	1,002.00					Average
		point8	8	6,768,380.0	1,837,686.9	998.40					Average
		point7	7	6,768,531.0	1,837,849.8	995.40					Average
		point6	6	6,768,688.0	1,838,010.4	993.00					Average
		point5	5	6,768,836.5	1,838,152.2	990.00					Average
		point4	4	6,768,994.0	1,838,300.6	985.00					Average
		point3	3	6,769,165.5	1,838,448.9	979.50					Average
		point2	2	6,769,345.5	1,838,603.8	973.60					Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point1	1	6,769,539.0	1,838,765.9	966.40					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50					Average
		point156	156	6,769,292.0	1,838,653.6	973.10					Average
		point155	155	6,769,114.0	1,838,500.6	979.80					Average
		point154	154	6,768,941.5	1,838,350.8	985.80					Average
		point153	153	6,768,787.0	1,838,201.9	991.00					Average
		point152	152	6,768,637.5	1,838,059.1	994.00					Average
		point151	151	6,768,481.5	1,837,899.8	996.50					Average
		point150	150	6,768,324.5	1,837,731.5	998.70					Average
		point149	149	6,768,146.5	1,837,539.2	1,001.90					Average
		point148	148	6,767,994.0	1,837,374.8	1,004.80					Average
		point147	147	6,767,820.5	1,837,188.2	1,006.90					Average
		point146	146	6,767,668.0	1,837,022.6	1,007.10					Average
		point145	145	6,767,517.0	1,836,860.6	1,006.70					Average
		point144	144	6,767,356.0	1,836,686.2	1,006.20					Average
		point532	532	6,767,172.0	1,836,487.9	1,004.00					Average
		point142	142	6,766,991.0	1,836,292.2	998.90					Average
		point141	141	6,766,828.5	1,836,116.8	992.00					Average
		point140	140	6,766,689.5	1,835,966.8	984.50					Average
		point139	139	6,766,517.0	1,835,781.0	976.00					Average
		point138	138	6,766,348.0	1,835,599.4	967.80					Average
		point531	531	6,766,133.0	1,835,368.1	963.30					Average
		point136	136	6,765,999.5	1,835,223.5	962.80					Average
		point135	135	6,765,837.0	1,835,048.1	962.20					Average
		point134	134	6,765,647.5	1,834,843.9	961.70					Average
		point133	133	6,765,474.0	1,834,657.2	960.90					Average
		point132	132	6,765,292.5	1,834,461.8	960.40					Average
		point131	131	6,765,124.5	1,834,280.2	958.70					Average
		point130	130	6,764,960.5	1,834,102.9	954.80					Average
		point129	129	6,764,819.5	1,833,952.1	948.40					Average
		point128	128	6,764,650.5	1,833,769.1	939.80					Average
		point127	127	6,764,500.5	1,833,607.5	932.00					Average
		point126	126	6,764,368.5	1,833,463.8	925.50					Average
		point125	125	6,764,179.0	1,833,259.9	919.50					Average
		point124	124	6,764,013.0	1,833,077.6	918.20					Average
		point123	123	6,763,850.5	1,832,887.6	917.10					Average
		point122	122	6,763,711.5	1,832,715.1	916.30					Average
		point121	121	6,763,546.0	1,832,498.2	915.40					Average
		point120	120	6,763,362.0	1,832,252.2	915.40					

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse NB	12.0	point552	552	6,765,466.0	1,834,747.4	966.00				Average	
		point553	553	6,765,633.5	1,834,955.2	969.00				Average	
		point554	554	6,765,713.0	1,835,053.5	971.00				Average	
		point555	555	6,765,794.0	1,835,144.2	973.00				Average	
		point556	556	6,765,864.5	1,835,255.5	976.00				Average	
		point557	557	6,765,905.5	1,835,377.1	979.00					

RESULTS: SOUND LEVELS

I-215/Barton Road Interchange

LSA Associates, Inc.						17 January 2011							
Teak Kim						TNM 2.5							
						Calculated with TNM 2.5							
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:			I-215/Barton Road Interchange										
RUN:			Future NoBuild Conditions										
BARRIER DESIGN:			INPUT HEIGHTS						Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.				
ATMOSPHERICS:			68 deg F, 50% RH										
Receiver													
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing		With Barrier				
							Calculated	Crit'n	Type Impact	Calculated LAeq1h	Noise Reduction		
							Calculated	Sub'l Inc			Calculated	Goal	Calculated minus Goal
				dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
M-11		1	1	0.0	68.7	66	68.7	12	Snd Lvl	68.7	0.0	5	-5.0
R-113		2	1	0.0	69.1	66	69.1	12	Snd Lvl	69.1	0.0	5	-5.0
R-114		3	1	0.0	67.3	66	67.3	12	Snd Lvl	67.3	0.0	5	-5.0
R-115		4	1	0.0	72.1	66	72.1	12	Snd Lvl	72.1	0.0	5	-5.0
R-121		5	1	0.0	69.9	66	69.9	12	Snd Lvl	69.9	0.0	5	-5.0
R-122		6	1	0.0	68.6	66	68.6	12	Snd Lvl	68.6	0.0	5	-5.0
R-123		7	1	0.0	70.3	66	70.3	12	Snd Lvl	70.3	0.0	5	-5.0
R-124		8	1	0.0	65.9	66	65.9	12	----	65.9	0.0	5	-5.0
Dwelling Units		# DUs	Noise Reduction										
			Min	Avg	Max								
			dB	dB	dB								
All Selected		8	0.0	0.0	0.0								
All Impacted		7	0.0	0.0	0.0								
All that meet NR Goal		0	0.0	0.0	0.0								

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011		
Teak Kim		TNM 2.5		
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:		I-215/Barton Road Interchange		
RUN:		Future NoBuild Conditions		
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,764,381.5	1,833,279.8	942.00
	2	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,016.5	1,833,967.0	943.00
	6	6,765,092.0	1,834,055.4	945.00
	7	6,765,258.0	1,834,237.6	954.00
	8	6,765,400.0	1,834,395.8	960.00
	9	6,765,541.0	1,834,544.6	964.00
	10	6,765,738.0	1,834,749.4	972.00
Terrain Line6	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	16	6,766,314.0	1,835,368.2	984.00
Terrain Line7	22	6,766,507.0	1,835,493.1	986.00
	23	6,766,573.5	1,835,591.8	987.00
	24	6,766,630.0	1,835,668.0	987.00
	25	6,766,679.5	1,835,723.8	989.00
	26	6,766,758.0	1,835,818.9	990.00
	27	6,766,863.0	1,835,948.1	994.00
	28	6,766,975.0	1,836,081.6	998.00
	29	6,767,078.5	1,836,200.6	1,001.00
	30	6,767,228.0	1,836,360.2	1,004.00
	31	6,767,393.0	1,836,514.6	1,010.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00
	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line15	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00

INPUT: TERRAIN LINES**I-215/Barton Road Interchange**

	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line14	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line11	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
	99	6,766,171.0	1,835,508.8	985.00
	100	6,766,103.5	1,835,420.1	982.00
Terrain Line8	102	6,767,393.0	1,836,514.6	1,010.00
	32	6,767,432.0	1,836,546.8	1,010.00
Terrain Line9	106	6,767,811.0	1,836,956.8	1,015.00
	37	6,767,911.0	1,837,066.2	1,017.00
	38	6,767,981.5	1,837,102.2	1,020.00
Terrain Line5	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,206.5	1,835,144.8	975.00
Terrain Line13	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,149.0	1,836,589.2	992.00
Terrain Line12	125	6,765,595.0	1,835,437.0	980.00
	126	6,765,566.0	1,835,436.2	979.30
	127	6,765,445.5	1,835,448.2	976.50

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.		14 January 2011											
Teak Kim		TNM 2.5											
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		I-215/Barton Road Interchange											
RUN:		Future NoBuild Conditions											
Roadway	Points												
Name	Name	No.	Segment	Autos		MTrucks		HTrucks		Buses		Motorcycles	
				V	S	V	S	V	S	V	S	V	S
				veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3	point76	76	1389	64	64	53	53	54	0	0	0	0	0
	point75	75	1389	64	64	53	53	54	0	0	0	0	0
	point74	74	1389	64	64	53	53	54	0	0	0	0	0
	point73	73	1389	64	64	53	53	54	0	0	0	0	0
	point72	72	1389	64	64	53	53	54	0	0	0	0	0
	point71	71	1389	64	64	53	53	54	0	0	0	0	0
	point70	70	1389	64	64	53	53	54	0	0	0	0	0
	point69	69	1389	64	64	53	53	54	0	0	0	0	0
	point68	68	1389	64	64	53	53	54	0	0	0	0	0
	point67	67	1389	64	64	53	53	54	0	0	0	0	0
	point66	66	1389	64	64	53	53	54	0	0	0	0	0
	point65	65	1389	64	64	53	53	54	0	0	0	0	0
	point64	64	1389	64	64	53	53	54	0	0	0	0	0
	point63	63	1389	64	64	53	53	54	0	0	0	0	0
	point62	62	1389	64	64	53	53	54	0	0	0	0	0
	point61	61	1389	64	64	53	53	54	0	0	0	0	0
	point60	60	1389	64	64	53	53	54	0	0	0	0	0
	point59	59	1389	64	64	53	53	54	0	0	0	0	0
	point58	58	1389	64	64	53	53	54	0	0	0	0	0
	point57	57	1389	64	64	53	53	54	0	0	0	0	0
	point56	56	1389	64	64	53	53	54	0	0	0	0	0
	point55	55	1389	64	64	53	53	54	0	0	0	0	0
	point54	54	1389	64	64	53	53	54	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1389	64	64	53	53	54	0	0	0	0
	point52	52	1389	64	64	53	53	54	0	0	0	0
	point51	51	1389	64	64	53	53	54	0	0	0	0
	point50	50	1389	64	64	53	53	54	0	0	0	0
	point49	49	1389	64	64	53	53	54	0	0	0	0
	point48	48	1389	64	64	53	53	54	0	0	0	0
	point47	47	1389	64	64	53	53	54	0	0	0	0
	point46	46	1389	64	64	53	53	54	0	0	0	0
	point45	45	1389	64	64	53	53	54	0	0	0	0
	point44	44	1389	64	64	53	53	54	0	0	0	0
	point43	43	1389	64	64	53	53	54	0	0	0	0
	point42	42	1389	64	64	53	53	54	0	0	0	0
	point41	41	1389	64	64	53	53	54	0	0	0	0
	point40	40	1389	64	64	53	53	54	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1340	64	33	53	60	54	0	0	0	0
	point114	114	1340	64	33	53	60	54	0	0	0	0
	point113	113	1340	64	33	53	60	54	0	0	0	0
	point112	112	1340	64	33	53	60	54	0	0	0	0
	point111	111	1340	64	33	53	60	54	0	0	0	0
	point110	110	1340	64	33	53	60	54	0	0	0	0
	point109	109	1340	64	33	53	60	54	0	0	0	0
	point108	108	1340	64	33	53	60	54	0	0	0	0
	point107	107	1340	64	33	53	60	54	0	0	0	0
	point106	106	1340	64	33	53	60	54	0	0	0	0
	point105	105	1340	64	33	53	60	54	0	0	0	0
	point104	104	1340	64	33	53	60	54	0	0	0	0
	point103	103	1340	64	33	53	60	54	0	0	0	0
	point102	102	1340	64	33	53	60	54	0	0	0	0
	point101	101	1340	64	33	53	60	54	0	0	0	0
	point100	100	1340	64	33	53	60	54	0	0	0	0
	point99	99	1340	64	33	53	60	54	0	0	0	0
	point98	98	1340	64	33	53	60	54	0	0	0	0
	point97	97	1340	64	33	53	60	54	0	0	0	0
	point96	96	1340	64	33	53	60	54	0	0	0	0
	point95	95	1340	64	33	53	60	54	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1340	64	33	53	60	54	0	0	0	0
	point93	93	1340	64	33	53	60	54	0	0	0	0
	point92	92	1340	64	33	53	60	54	0	0	0	0
	point91	91	1340	64	33	53	60	54	0	0	0	0
	point90	90	1340	64	33	53	60	54	0	0	0	0
	point89	89	1340	64	33	53	60	54	0	0	0	0
	point88	88	1340	64	33	53	60	54	0	0	0	0
	point87	87	1340	64	33	53	60	54	0	0	0	0
	point86	86	1340	64	33	53	60	54	0	0	0	0
	point85	85	1340	64	33	53	60	54	0	0	0	0
	point84	84	1340	64	33	53	60	54	0	0	0	0
	point83	83	1340	64	33	53	60	54	0	0	0	0
	point82	82	1340	64	33	53	60	54	0	0	0	0
	point81	81	1340	64	33	53	60	54	0	0	0	0
	point80	80	1340	64	33	53	60	54	0	0	0	0
	point79	79	1340	64	33	53	60	54	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	352	45	28	45	0	0	0	0	0	0
	point200	200	352	45	28	45	0	0	0	0	0	0
	point201	201	352	45	28	45	0	0	0	0	0	0
	point202	202	352	45	28	45	0	0	0	0	0	0
	point203	203	352	45	28	45	0	0	0	0	0	0
	point204	204	352	45	28	45	0	0	0	0	0	0
	point205	205	352	45	28	45	0	0	0	0	0	0
	point206	206	352	45	28	45	0	0	0	0	0	0
	point207	207	352	45	28	45	0	0	0	0	0	0
	point208	208	246	45	20	45	0	0	0	0	0	0
	point209	209	246	45	20	45	0	0	0	0	0	0
	point210	210	246	45	20	45	0	0	0	0	0	0
	point435	435	246	40	20	40	0	0	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	0	0	0	0	0	0	0	0	0	0
	point223	223	0	0	0	0	0	0	0	0	0	0
	point224	224	0	0	0	0	0	0	0	0	0	0
	point225	225	0	0	0	0	0	0	0	0	0	0
	point226	226	0	0	0	0	0	0	0	0	0	0
	point227	227	0	0	0	0	0	0	0	0	0	0
	point228	228	0	0	0	0	0	0	0	0	0	0
	point420	420	0	0	0	0	0	0	0	0	0	0
	point229	229										
Barton EB	point257	257	0	0	0	0	0	0	0	0	0	0
	point256	256	0	0	0	0	0	0	0	0	0	0
	point255	255	0	0	0	0	0	0	0	0	0	0
	point254	254	0	0	0	0	0	0	0	0	0	0
	point253	253	0	0	0	0	0	0	0	0	0	0
	point252	252	0	0	0	0	0	0	0	0	0	0
	point251	251	0	0	0	0	0	0	0	0	0	0
	point250	250	0	0	0	0	0	0	0	0	0	0
	point436	436										
Barton EB	point260	260	0	0	0	0	0	0	0	0	0	0
	point421	421	0	0	0	0	0	0	0	0	0	0
	point259	259	0	0	0	0	0	0	0	0	0	0
	point258	258										
Barton WB	point397	397	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point291	291	0	0	0	0	0	0	0	0	0	0
	point290	290										
Barton WB	point304	304	0	0	0	0	0	0	0	0	0	0
	point432	432	0	0	0	0	0	0	0	0	0	0
	point303	303	0	0	0	0	0	0	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	0	0	0	0	0	0	0	0	0	0
	point312	312	0	0	0	0	0	0	0	0	0	0
	point311	311	0	0	0	0	0	0	0	0	0	0
	point310	310	0	0	0	0	0	0	0	0	0	0
	point309	309	0	0	0	0	0	0	0	0	0	0
	point308	308	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	0	0	0	0	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	0	0	0	0	0	0	0	0	0	0
	point403	403	0	0	0	0	0	0	0	0	0	0
	point404	404	0	0	0	0	0	0	0	0	0	0
	point319	319	0	0	0	0	0	0	0	0	0	0
	point318	318	0	0	0	0	0	0	0	0	0	0
	point317	317	0	0	0	0	0	0	0	0	0	0
	point316	316	0	0	0	0	0	0	0	0	0	0
	point315	315	0	0	0	0	0	0	0	0	0	0
	point314	314	0	0	0	0	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	0	0	0	0	0	0	0	0	0	0
	point406	406	0	0	0	0	0	0	0	0	0	0
	point407	407	0	0	0	0	0	0	0	0	0	0
	point326	326	0	0	0	0	0	0	0	0	0	0
	point325	325	0	0	0	0	0	0	0	0	0	0
	point324	324	0	0	0	0	0	0	0	0	0	0
	point323	323	0	0	0	0	0	0	0	0	0	0
	point322	322	0	0	0	0	0	0	0	0	0	0
	point321	321	0	0	0	0	0	0	0	0	0	0
	point425	425	0	0	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	0	0	0	0	0	0	0	0	0	0
	point332	332	0	0	0	0	0	0	0	0	0	0
	point331	331	0	0	0	0	0	0	0	0	0	0
	point330	330	0	0	0	0	0	0	0	0	0	0
	point329	329	0	0	0	0	0	0	0	0	0	0
	point328	328	0	0	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB	point426	426	0	0	0	0	0	0	0	0	0	0
	point363	363	0	0	0	0	0	0	0	0	0	0
	point364	364	0	0	0	0	0	0	0	0	0	0
	point365	365	0	0	0	0	0	0	0	0	0	0
	point366	366	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	0	0	0	0	0	0	0	0	0	0
	point368	368	0	0	0	0	0	0	0	0	0	0
	point430	430	0	0	0	0	0	0	0	0	0	0
	point369	369										
Michigan NB	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB	point431	431	0	0	0	0	0	0	0	0	0	0
	point374	374	0	0	0	0	0	0	0	0	0	0
	point375	375	0	0	0	0	0	0	0	0	0	0
	point376	376	0	0	0	0	0	0	0	0	0	0
	point377	377	0	0	0	0	0	0	0	0	0	0
	point378	378	0	0	0	0	0	0	0	0	0	0
	point379	379	0	0	0	0	0	0	0	0	0	0
	point380	380										
Michigan SB	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB Ln	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point441	441	0	0	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	0	0	0	0	0	0	0	0	0	0
	point249	249	0	0	0	0	0	0	0	0	0	0
	point248	248	0	0	0	0	0	0	0	0	0	0
	point247	247										
Barton WB	point445	445	0	0	0	0	0	0	0	0	0	0
	point434	434	0	0	0	0	0	0	0	0	0	0
	point301	301	0	0	0	0	0	0	0	0	0	0
	point300	300	0	0	0	0	0	0	0	0	0	0
	point422	422	0	0	0	0	0	0	0	0	0	0
	point423	423	0	0	0	0	0	0	0	0	0	0
	point299	299	0	0	0	0	0	0	0	0	0	0
	point298	298	0	0	0	0	0	0	0	0	0	0
	point297	297	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point294	294										
Barton EB	point398	398	0	0	0	0	0	0	0	0	0	0
	point428	428	0	0	0	0	0	0	0	0	0	0
	point429	429	0	0	0	0	0	0	0	0	0	0
	point268	268	0	0	0	0	0	0	0	0	0	0
	point267	267	0	0	0	0	0	0	0	0	0	0
	point266	266	0	0	0	0	0	0	0	0	0	0
	point265	265	0	0	0	0	0	0	0	0	0	0
	point264	264	0	0	0	0	0	0	0	0	0	0
	point263	263	0	0	0	0	0	0	0	0	0	0
	point262	262	0	0	0	0	0	0	0	0	0	0
	point439	439	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	0	0	0	0	0	0	0	0	0	0
	point269	269										
Barton WB	point280	280	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point438	438	0	0	0	0	0	0	0	0	0	0
	point289	289	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point286	286	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point412	412	0	0	0	0	0	0	0	0	0	0
	point413	413	0	0	0	0	0	0	0	0	0	0
	point283	283	0	0	0	0	0	0	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point462	462	0	0	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	280	64	26	53	8	54	0	0	0	0
	point239	239	280	64	26	53	8	54	0	0	0	0
	point238	238	280	64	26	53	8	54	0	0	0	0
	point237	237	280	64	26	53	8	54	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point236	236	280	64	26	53	8	54	0	0	0	0
	point235	235	280	64	26	53	8	54	0	0	0	0
	point234	234	280	64	26	53	8	54	0	0	0	0
	point233	233	280	64	26	53	8	54	0	0	0	0
	point232	232	280	64	26	53	8	54	0	0	0	0
	point231	231	280	64	26	53	8	54	0	0	0	0
	point450	450	280	64	26	53	8	54	0	0	0	0
	point451	451	280	64	26	53	8	54	0	0	0	0
	point452	452	280	64	26	53	8	54	0	0	0	0
	point453	453	280	64	26	53	8	54	0	0	0	0
	point454	454	280	64	26	53	8	54	0	0	0	0
	point456	456	280	64	26	53	8	54	0	0	0	0
	point7	522	280	64	26	53	8	54	0	0	0	0
	point6	523	280	64	26	53	8	54	0	0	0	0
	point5	524	280	64	26	53	8	54	0	0	0	0
	point4	525	280	64	26	53	8	54	0	0	0	0
	point3	526	280	64	26	53	8	54	0	0	0	0
	point2	527	280	64	26	53	8	54	0	0	0	0
	point1	528										
La Crosse SB	point535	535	0	0	0	0	0	0	0	0	0	0
	point536	536	0	0	0	0	0	0	0	0	0	0
	point537	537	0	0	0	0	0	0	0	0	0	0
	point538	538	0	0	0	0	0	0	0	0	0	0
	point539	539	0	0	0	0	0	0	0	0	0	0
	point540	540										
La Crosse Avenue (northern)	point551	551	106	40	8	40	0	0	0	0	0	0
	point547	547	106	40	8	40	0	0	0	0	0	0
	point548	548	106	40	8	40	0	0	0	0	0	0
	point549	549	106	40	8	40	0	0	0	0	0	0
	point550	550										
I-215 NB Lanes 1 & 2	point38	38	2779	64	128	53	107	54	0	0	0	0
	point37	37	2779	64	128	53	107	54	0	0	0	0
	point36	36	2779	64	128	53	107	54	0	0	0	0
	point35	35	2779	64	128	53	107	54	0	0	0	0
	point34	34	2779	64	128	53	107	54	0	0	0	0
	point33	33	2779	64	128	53	107	54	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point32	32	2779	64	128	53	107	54	0	0	0	0
	point31	31	2779	64	128	53	107	54	0	0	0	0
	point30	30	2779	64	128	53	107	54	0	0	0	0
	point29	29	2779	64	128	53	107	54	0	0	0	0
	point28	28	2779	64	128	53	107	54	0	0	0	0
	point27	27	2779	64	128	53	107	54	0	0	0	0
	point26	26	2779	64	128	53	107	54	0	0	0	0
	point25	25	2779	64	128	53	107	54	0	0	0	0
	point534	534	2779	64	128	53	107	54	0	0	0	0
	point23	23	2779	64	128	53	107	54	0	0	0	0
	point22	22	2779	64	128	53	107	54	0	0	0	0
	point21	21	2779	64	128	53	107	54	0	0	0	0
	point533	533	2779	64	128	53	107	54	0	0	0	0
	point20	20	2779	64	128	53	107	54	0	0	0	0
	point19	19	2779	64	128	53	107	54	0	0	0	0
	point18	18	2779	64	128	53	107	54	0	0	0	0
	point17	17	2779	64	128	53	107	54	0	0	0	0
	point16	16	2779	64	128	53	107	54	0	0	0	0
	point15	15	2779	64	128	53	107	54	0	0	0	0
	point14	14	2779	64	128	53	107	54	0	0	0	0
	point13	13	2779	64	128	53	107	54	0	0	0	0
	point12	12	2779	64	128	53	107	54	0	0	0	0
	point11	11	2779	64	128	53	107	54	0	0	0	0
	point10	10	2779	64	128	53	107	54	0	0	0	0
	point9	9	2779	64	128	53	107	54	0	0	0	0
	point8	8	2779	64	128	53	107	54	0	0	0	0
	point7	7	2779	64	128	53	107	54	0	0	0	0
	point6	6	2779	64	128	53	107	54	0	0	0	0
	point5	5	2779	64	128	53	107	54	0	0	0	0
	point4	4	2779	64	128	53	107	54	0	0	0	0
	point3	3	2779	64	128	53	107	54	0	0	0	0
	point2	2	2779	64	128	53	107	54	0	0	0	0
	point1	1										
I-215 SB Lanes 1 & 2	point157	157	2680	64	67	53	120	54	0	0	0	0
	point156	156	2680	64	67	53	120	54	0	0	0	0
	point155	155	2680	64	67	53	120	54	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point154	154	2680	64	67	53	120	54	0	0	0	0
	point153	153	2680	64	67	53	120	54	0	0	0	0
	point152	152	2680	64	67	53	120	54	0	0	0	0
	point151	151	2680	64	67	53	120	54	0	0	0	0
	point150	150	2680	64	67	53	120	54	0	0	0	0
	point149	149	2680	64	67	53	120	54	0	0	0	0
	point148	148	2680	64	67	53	120	54	0	0	0	0
	point147	147	2680	64	67	53	120	54	0	0	0	0
	point146	146	2680	64	67	53	120	54	0	0	0	0
	point145	145	2680	64	67	53	120	54	0	0	0	0
	point144	144	2680	64	67	53	120	54	0	0	0	0
	point532	532	2680	64	67	53	120	54	0	0	0	0
	point142	142	2680	64	67	53	120	54	0	0	0	0
	point141	141	2680	64	67	53	120	54	0	0	0	0
	point140	140	2680	64	67	53	120	54	0	0	0	0
	point139	139	2680	64	67	53	120	54	0	0	0	0
	point138	138	2680	64	67	53	120	54	0	0	0	0
	point531	531	2680	64	67	53	120	54	0	0	0	0
	point136	136	2680	64	67	53	120	54	0	0	0	0
	point135	135	2680	64	67	53	120	54	0	0	0	0
	point134	134	2680	64	67	53	120	54	0	0	0	0
	point133	133	2680	64	67	53	120	54	0	0	0	0
	point132	132	2680	64	67	53	120	54	0	0	0	0
	point131	131	2680	64	67	53	120	54	0	0	0	0
	point130	130	2680	64	67	53	120	54	0	0	0	0
	point129	129	2680	64	67	53	120	54	0	0	0	0
	point128	128	2680	64	67	53	120	54	0	0	0	0
	point127	127	2680	64	67	53	120	54	0	0	0	0
	point126	126	2680	64	67	53	120	54	0	0	0	0
	point125	125	2680	64	67	53	120	54	0	0	0	0
	point124	124	2680	64	67	53	120	54	0	0	0	0
	point123	123	2680	64	67	53	120	54	0	0	0	0
	point122	122	2680	64	67	53	120	54	0	0	0	0
	point121	121	2680	64	67	53	120	54	0	0	0	0
	point120	120										
La Crosse NB	point552	552	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**I-215/Barton Road Interchange**

	point553	553	0	0	0	0	0	0	0	0	0	0
	point554	554	0	0	0	0	0	0	0	0	0	0
	point555	555	0	0	0	0	0	0	0	0	0	0
	point556	556	0	0	0	0	0	0	0	0	0	0
	point557	557										

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	22 June 2011
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange
 RUN: Calibration 12

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	\$ per	\$ per	Top	Run:Rise	\$ per			X	Y	Z	at	Seg	Ht	Perturbs	On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
		ft	ft	Area	Vol.		ft:ft	Length			ft	ft	ft	ft	ment				tions?
				\$/sq ft	\$/cu yd			\$/ft											
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,437.2	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point20	20	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point17	17	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point18	18	6,765,983.5	1,835,896.2	983.50	12.60	0.00	0	0		
									point19	19	6,765,926.0	1,835,603.5	984.00	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 9	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					

INPUT: BARRIERS

I-215/Barton Road Interchange

Existing Wall 1	W	0.00	99.99	0.00				0.00	point46	46	6,765,733.0	1,834,747.4	972.00	6.00	0.00	0	0		
									point47	47	6,766,032.0	1,835,023.8	975.00	6.00					
Existing Wall 2	W	0.00	99.99	0.00				0.00	point48	48	6,766,149.5	1,835,105.9	975.00	5.00	0.00	0	0		
									point49	49	6,766,221.5	1,835,134.9	976.00	5.00	0.00	0	0		
									point50	50	6,766,286.0	1,835,123.5	979.00	5.00					
Existing Wall 3	W	0.00	99.99	0.00				0.00	point51	51	6,766,317.5	1,835,120.1	979.00	5.00	0.00	0	0		
									point52	52	6,766,351.0	1,835,160.4	977.00	5.00	0.00	0	0		
									point53	53	6,766,400.0	1,835,183.2	979.00	5.00	0.00	0	0		
									point54	54	6,766,446.0	1,835,211.2	979.00	5.00					
Building Barrier 1	W	0.00	99.99	0.00				0.00	point56	56	6,765,880.5	1,834,878.2	973.00	20.00	0.00	0	0		
									point57	57	6,765,987.5	1,834,974.2	973.00	20.00					
Building Barrier 2	W	0.00	99.99	0.00				0.00	point58	58	6,766,050.5	1,835,010.0	975.00	25.00	0.00	0	0		
									point59	59	6,766,152.5	1,835,101.9	975.00	25.00					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point60	60	6,766,357.5	1,835,106.0	977.00	25.00	0.00	0	0		
									point61	61	6,766,379.0	1,835,124.9	977.00	25.00	0.00	0	0		
									point62	62	6,766,472.0	1,835,131.4	977.00	25.00					
Building Barrier 4	W	0.00	99.99	0.00				0.00	point63	63	6,766,508.0	1,835,099.4	985.00	25.00	0.00	0	0		
									point64	64	6,766,507.0	1,835,198.8	985.00	25.00	0.00	0	0		
									point65	65	6,766,791.5	1,835,202.0	985.00	25.00					
Building Barrier 5	W	0.00	99.99	0.00				0.00	point66	66	6,766,722.5	1,835,216.2	990.00	20.00	0.00	0	0		
									point67	67	6,766,720.5	1,835,273.1	990.00	20.00	0.00	0	0		
									point68	68	6,766,808.5	1,835,276.2	990.00	20.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point69	69	6,766,833.0	1,835,337.4	992.00	15.00	0.00	0	0		
									point70	70	6,766,911.5	1,835,339.6	992.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00				0.00	point76	76	6,765,792.5	1,835,583.5	981.00	15.00	0.00	0	0		
									point77	77	6,765,769.5	1,835,469.5	981.00	15.00					
Building Barrier 16	W	0.00	99.99	0.00				0.00	point78	78	6,765,918.0	1,835,604.2	984.00	15.00	0.00	0	0		
									point79	79	6,765,900.0	1,835,514.1	984.00	15.00					
Building Barrier 19	W	0.00	99.99	0.00				0.00	point80	80	6,765,850.0	1,835,661.9	982.00	15.00	0.00	0	0		
									point81	81	6,765,874.0	1,835,678.6	982.00	15.00	0.00	0	0		
									point82	82	6,765,895.5	1,835,791.9	982.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		
									point84	84	6,765,879.0	1,835,875.9	981.00	15.00					
Building Barrier 17	W	0.00	99.99	0.00				0.00	point85	85	6,766,072.5	1,835,653.1	988.00	15.00	0.00	0	0		
									point86	86	6,766,258.0	1,835,775.1	993.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00				0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
									point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
									point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
									point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
									point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
									point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
									point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 28	W	0.00	99.99	0.00				0.00	point97	97	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
									point96	96	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 29	W	0.00	99.99	0.00				0.00	point99	99	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
									point98	98	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 30	W	0.00	99.99	0.00				0.00	point101	101	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
									point100	100	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 7	W	0.00	99.99	0.00				0.00	point103	103	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point102	102	6,768,134.5	1,835,263.8	1,022.00	15.00				
Building Barrier 10	W	0.00	99.99	0.00			0.00	point105	105	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point104	104	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point107	107	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point106	106	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point111	111	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point110	110	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point113	113	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point112	112	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point115	115	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point114	114	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point117	117	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point116	116	6,765,334.5	1,835,495.2	969.00	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point119	119	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point118	118	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point121	121	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point120	120	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point123	123	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point122	122	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point125	125	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point124	124	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point127	127	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point126	126	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point129	129	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point128	128	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 31	W	0.00	99.99	0.00			0.00	point131	131	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point130	130	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 32	W	0.00	99.99	0.00			0.00	point133	133	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point132	132	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 33	W	0.00	99.99	0.00			0.00	point135	135	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point134	134	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 34	W	0.00	99.99	0.00			0.00	point137	137	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point136	136	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 35	W	0.00	99.99	0.00			0.00	point139	139	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point138	138	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 36	W	0.00	99.99	0.00			0.00	point141	141	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point140	140	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 37	W	0.00	99.99	0.00			0.00	point143	143	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point142	142	6,765,577.0	1,837,024.2	979.30	15.00					
Existing wall 9	W	0.00	99.99	0.00			0.00	point97	149	6,766,517.5	1,835,485.5	986.00	6.00	0.00	0	0		
								point98	150	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
								point99	151	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
								point100	152	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
								point101	153	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
								point102	154	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point126	155	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
								point125	156	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	157	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	158	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point119	159	6,767,311.5	1,836,437.0	1,007.20	6.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point252	160	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
								point118	161	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
								point117	162	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
								point116	163	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00			0.00	point253	164	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
								point115	165	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
								point114	166	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
								point113	167	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
								point217	168	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
								point218	169	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
								point219	170	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
								point220	171	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
								point221	172	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
								point245	173	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
								point246	174	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
								point247	175	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
								point248	176	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
								point249	177	6,767,675.5	1,836,811.1	1,011.00	6.00					
Barrier56	W	0.00	99.99	0.00			0.00	point256	178	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
								point250	179	6,767,715.0	1,836,788.8	1,013.50	5.00					
Barrier57	W	0.00	99.99	0.00			0.00	point255	180	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
								point251	181	6,767,816.0	1,836,961.2	1,016.00	5.00					

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

LSA Associates, Inc.											
Teak Kim											

22 June 2011

TNM 2.5

RESULTS: BARRIER DESCRIPTIONS

PROJECT/CONTRACT: I-215/Barton Road Interchange

RUN: Calibration 12

BARRIER DESIGN: INPUT HEIGHTS

Barriers											
Name	Type	Heights along Barrier			Length	If Wall	If Berm	Top	Run:Rise	Cost	
		Min	Avg	Max							
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$	
Existing Wall 5a	W	5.30	5.30	5.30	252	1336					0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777					0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664					0
Existing Wall 4b	W	12.60	12.60	12.60	698	8794					0
Existing Wall 8	W	5.30	5.30	5.30	768	4070					0
Existing Wall 7	W	5.30	5.30	5.30	253	1341					0
Building Barrier 9	W	15.00	15.00	15.00	298	4475					0
Existing Wall 1	W	6.00	6.00	6.00	407	2443					0
Existing Wall 2	W	5.00	5.00	5.00	143	716					0
Existing Wall 3	W	5.00	5.00	5.00	160	801					0
Building Barrier 1	W	20.00	20.00	20.00	144	2875					0
Building Barrier 2	W	25.00	25.00	25.00	137	3432					0
Building Barrier 3	W	25.00	25.00	25.00	122	3046					0
Building Barrier 4	W	25.00	25.00	25.00	384	9597					0
Building Barrier 5	W	20.00	20.00	20.00	145	2899					0
Building Barrier 6	W	15.00	15.00	15.00	79	1178					0
Building Barrier 18	W	15.00	15.00	15.00	116	1744					0
Building Barrier 16	W	15.00	15.00	15.00	92	1379					0
Building Barrier 19	W	15.00	15.00	15.00	145	2168					0
Building Barrier 20	W	15.00	15.00	15.00	51	770					0
Building Barrier 17	W	15.00	15.00	15.00	222	3330					0
Building Barrier 8	W	15.00	15.00	15.00	430	6443					0
Building Barrier 28	W	15.00	15.00	15.00	60	905					0

RESULTS: BARRIER DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 29	W	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	15.00	15.00	15.00	46	687				0
Existing wall 9	W	6.00	6.00	6.00	531	3183				0
Building Barrier 12	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Barrier56	W	5.00	5.00	5.00	45	227				0
Barrier57	W	5.00	5.00	5.00	127	633				0
									Total Cost:	0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point27	27	5.30	5.30	5.30	81	427				0
		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 9	W	point44	44	15.00	15.00	15.00	298	4475				0
Existing Wall 1	W	point46	46	6.00	6.00	6.00	407	2443				0
Existing Wall 2	W	point48	48	5.00	5.00	5.00	78	388				0
		point49	49	5.00	5.00	5.00	65	327				0
Existing Wall 3	W	point51	51	5.00	5.00	5.00	52	262				0
		point52	52	5.00	5.00	5.00	54	270				0
		point53	53	5.00	5.00	5.00	54	269				0
Building Barrier 1	W	point56	56	20.00	20.00	20.00	144	2875				0
Building Barrier 2	W	point58	58	25.00	25.00	25.00	137	3432				0
Building Barrier 3	W	point60	60	25.00	25.00	25.00	29	715				0
		point61	61	25.00	25.00	25.00	93	2331				0
Building Barrier 4	W	point63	63	25.00	25.00	25.00	99	2485				0
		point64	64	25.00	25.00	25.00	285	7113				0
Building Barrier 5	W	point66	66	20.00	20.00	20.00	57	1138				0
		point67	67	20.00	20.00	20.00	88	1761				0
Building Barrier 6	W	point69	69	15.00	15.00	15.00	79	1178				0
Building Barrier 18	W	point76	76	15.00	15.00	15.00	116	1744				0
Building Barrier 16	W	point78	78	15.00	15.00	15.00	92	1379				0
Building Barrier 19	W	point80	80	15.00	15.00	15.00	29	439				0
		point81	81	15.00	15.00	15.00	115	1729				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 20	W	point83	83	15.00	15.00	15.00	51	770				0
Building Barrier 17	W	point85	85	15.00	15.00	15.00	222	3330				0
Building Barrier 8	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 28	W	point97	97	15.00	15.00	15.00	60	905				0
Building Barrier 29	W	point99	99	15.00	15.00	15.00	60	902				0
Building Barrier 30	W	point101	101	15.00	15.00	15.00	39	586				0
Building Barrier 7	W	point103	103	15.00	15.00	15.00	42	630				0
Building Barrier 10	W	point105	105	15.00	15.00	15.00	77	1148				0
Building Barrier 11	W	point107	107	15.00	15.00	15.00	60	893				0
Building Barrier 13	W	point111	111	15.00	15.00	15.00	64	960				0
Building Barrier 14	W	point113	113	15.00	15.00	15.00	65	976				0
Building Barrier 15	W	point115	115	15.00	15.00	15.00	29	428				0
Building Barrier 21	W	point117	117	15.00	15.00	15.00	43	641				0
Building Barrier 22	W	point119	119	15.00	15.00	15.00	43	641				0
Building Barrier 23	W	point121	121	15.00	15.00	15.00	51	767				0
Building Barrier 24	W	point123	123	15.00	15.00	15.00	49	731				0
Building Barrier 25	W	point125	125	15.00	15.00	15.00	45	679				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

Building Barrier 26	W	point127	127	15.00	15.00	15.00	29	434				0
Building Barrier 27	W	point129	129	15.00	15.00	15.00	69	1029				0
Building Barrier 31	W	point131	131	15.00	15.00	15.00	40	607				0
Building Barrier 32	W	point133	133	15.00	15.00	15.00	55	819				0
Building Barrier 33	W	point135	135	15.00	15.00	15.00	67	1000				0
Building Barrier 34	W	point137	137	15.00	15.00	15.00	82	1236				0
Building Barrier 35	W	point139	139	15.00	15.00	15.00	77	1153				0
Building Barrier 36	W	point141	141	15.00	15.00	15.00	56	838				0
Building Barrier 37	W	point143	143	15.00	15.00	15.00	46	687				0
Existing wall 9	W	point97	149	6.00	6.00	6.00	59	351				0
		point98	150	6.00	6.00	6.00	129	771				0
		point99	151	6.00	6.00	6.00	109	654				0
		point100	152	6.00	6.00	6.00	120	720				0
		point101	153	6.00	6.00	6.00	115	687				0
Building Barrier 12	W	point126	155	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	point121	157	6.00	6.00	6.00	54	321				0
		point120	158	6.00	6.00	6.00	80	479				0
Existing Wall 6	W	point252	160	7.00	7.00	7.00	29	201				0
		point118	161	7.00	7.00	7.00	72	507				0
		point117	162	7.00	7.00	7.00	14	98				0
Existing Wall 6	W	point253	164	6.00	6.00	6.00	72	430				0
		point115	165	6.00	6.00	6.00	10	60				0
		point114	166	6.00	6.00	6.00	81	485				0
		point113	167	6.00	6.00	6.00	3	20				0
		point217	168	6.00	6.00	6.00	36	214				0

RESULTS: BARRIER-SEGMENT DESCRIPTIONS

I-215/Barton Road Interchange

		point218	169	6.00	6.00	6.00	9	51				0
		point219	170	6.00	6.00	6.00	27	164				0
		point220	171	6.00	6.00	6.00	3	20				0
		point221	172	6.00	6.00	6.00	8	49				0
		point245	173	6.00	6.00	6.00	81	483				0
		point246	174	6.00	6.00	6.00	124	743				0
		point247	175	6.00	6.00	6.00	44	262				0
		point248	176	6.00	6.00	6.00	72	435				0
Barrier56	W	point256	178	5.00	5.00	5.00	45	227				0
Barrier57	W	point255	180	5.00	5.00	5.00	127	633				0

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

LSA Associates, Inc.			22 June 2011			
Teak Kim			TNM 2.5			
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:			I-215/Barton Road Interchange			
RUN:			Calibration 12			
Building Row			Points			
Name	Average Height	Building Percent	No.	Coordinates (ground)		
	ft	%		X	Y	Z
				ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building12	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

INPUT: BUILDING ROWS

I-215/Barton Road Interchange

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building13	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building11	15.00	80	85	6,766,712.5	1,836,329.2	997.00
			86	6,766,641.0	1,836,120.2	994.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00

INPUT: BUILDING ROWS**I-215/Barton Road Interchange**

			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

INPUT: RECEIVERS

I-215/Barton Road Interchange

LSA Associates, Inc.						22 June 2011					
Teak Kim						TNM 2.5					
INPUT: RECEIVERS											
PROJECT/CONTRACT:		I-215/Barton Road Interchange									
RUN:		Calibration 12									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
M-12	1	1	6,767,490.5	1,837,258.2	1,017.00	5.00	0.00	66	12.0	5.0	
R-116	2	1	6,767,392.0	1,836,979.4	1,013.00	5.00	0.00	66	12.0	5.0	
R-117	3	1	6,767,436.0	1,837,051.5	1,015.00	5.00	0.00	66	12.0	5.0	
R-118	4	1	6,767,490.0	1,837,153.2	1,017.00	5.00	0.00	66	12.0	5.0	
R-119	5	1	6,767,535.0	1,837,239.5	1,020.00	5.00	0.00	66	12.0	5.0	
R-120	6	1	6,767,576.5	1,837,320.6	1,021.00	5.00	0.00	66	12.0	5.0	
R-125	7	1	6,767,228.5	1,836,996.1	1,011.00	5.00	0.00	66	12.0	5.0	
R-126	8	1	6,767,283.0	1,837,075.9	1,014.00	5.00	0.00	66	12.0	5.0	
R-127	9	1	6,767,322.5	1,837,142.9	1,015.00	5.00	0.00	66	12.0	5.0	
R-128	10	1	6,767,353.5	1,837,207.2	1,016.00	5.00	0.00	66	12.0	5.0	
R-129	11	1	6,767,409.0	1,837,306.5	1,017.00	5.00	0.00	66	12.0	5.0	
R-130	12	1	6,767,527.5	1,837,365.8	1,020.00	5.00	0.00	66	12.0	5.0	
R-144	173	1	6,767,886.5	1,837,479.6	1,029.00	5.00	0.00	66	12.0	5.0	Y

INPUT: ROADWAYS

I-215/Barton Road Interchange

LSA Associates, Inc. Teak Kim				14 January 2011 TNM 2.5							
INPUT: ROADWAYS				I-215/Barton Road Interchange			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT:				Calibration 12							
RUN:											
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
I-215 NB Lane 3	36.0	point76	76	6,763,402.0	1,832,218.9	915.20				Average	
		point75	75	6,763,588.5	1,832,466.2	915.20				Average	
		point74	74	6,763,739.5	1,832,664.8	915.60				Average	
		point73	73	6,763,892.0	1,832,859.2	916.50				Average	
		point72	72	6,764,051.5	1,833,044.8	917.70				Average	
		point71	71	6,764,219.0	1,833,227.5	919.20				Average	
		point70	70	6,764,399.5	1,833,422.5	925.20				Average	
		point69	69	6,764,540.5	1,833,573.9	932.10				Average	
		point68	68	6,764,691.0	1,833,736.1	940.00				Average	
		point67	67	6,764,858.5	1,833,916.9	949.00				Average	
		point66	66	6,764,998.5	1,834,069.9	955.20				Average	
		point65	65	6,765,162.0	1,834,245.8	959.20				Average	
		point64	64	6,765,331.0	1,834,427.2	960.40				Average	
		point63	63	6,765,512.5	1,834,623.5	961.20				Average	
		point62	62	6,765,686.0	1,834,810.2	961.90				Average	
		point61	61	6,765,876.0	1,835,015.1	962.30				Average	
		point60	60	6,766,035.5	1,835,186.2	962.90				Average	
		point59	59	6,766,204.0	1,835,368.2	963.00				Average	
		point58	58	6,766,388.0	1,835,567.0	968.10				Average	
		point57	57	6,766,556.0	1,835,748.0	976.00				Average	
		point56	56	6,766,728.5	1,835,933.0	985.00				Average	
		point55	55	6,766,867.0	1,836,084.2	992.00				Average	
		point54	54	6,767,030.5	1,836,259.8	999.10				Average	
		point53	53	6,767,211.0	1,836,453.8	1,004.30				Average	
		point52	52	6,767,393.5	1,836,651.6	1,006.70				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average	
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average	
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average	
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average	
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average	
		point46	46	6,768,365.0	1,837,698.0	998.70				Average	
		point45	45	6,768,518.0	1,837,862.1	995.60				Average	
		point44	44	6,768,674.5	1,838,022.8	993.30				Average	
		point43	43	6,768,823.5	1,838,166.2	990.10				Average	
		point42	42	6,768,980.5	1,838,313.8	985.20				Average	
		point41	41	6,769,152.5	1,838,462.6	979.50				Average	
		point40	40	6,769,332.5	1,838,617.5	973.70				Average	
		point39	39	6,769,526.0	1,838,779.8	966.90					
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average	
		point114	114	6,769,306.0	1,838,640.9	973.60				Average	
		point113	113	6,769,128.0	1,838,488.2	979.80				Average	
		point112	112	6,768,955.5	1,838,338.1	985.60				Average	
		point111	111	6,768,799.0	1,838,190.2	990.80				Average	
		point110	110	6,768,650.0	1,838,046.2	993.50				Average	
		point109	109	6,768,494.0	1,837,885.0	996.00				Average	
		point108	108	6,768,337.5	1,837,718.9	998.70				Average	
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average	
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average	
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average	
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average	
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average	
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average	
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average	
		point100	100	6,767,004.0	1,836,280.2	999.10				Average	
		point99	99	6,766,841.5	1,836,104.6	992.10				Average	
		point98	98	6,766,703.0	1,835,954.8	984.90				Average	
		point97	97	6,766,530.0	1,835,768.2	976.10				Average	
		point96	96	6,766,361.5	1,835,587.1	967.90				Average	
		point95	95	6,766,157.5	1,835,368.2	963.10				Average	
		point94	94	6,766,012.5	1,835,211.8	963.00				Average	
		point93	93	6,765,850.5	1,835,035.8	962.30				Average	
		point92	92	6,765,661.0	1,834,831.2	961.80				Average	
		point91	91	6,765,487.5	1,834,644.8	961.20				Average	
		point90	90	6,765,305.5	1,834,449.4	960.40				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00					Average
		point256	256	6,764,014.5	1,835,366.4	953.50					Average
		point255	255	6,764,147.0	1,835,365.4	953.00					Average
		point254	254	6,764,493.5	1,835,375.1	965.50					Average
		point253	253	6,764,793.0	1,835,380.8	979.70					Average
		point252	252	6,765,094.5	1,835,380.8	972.00					Average
		point251	251	6,765,404.5	1,835,380.8	973.00					Average
		point250	250	6,765,697.0	1,835,379.8	977.30					Average
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50					Average
		point421	421	6,766,581.5	1,835,376.4	986.50					Average
		point259	259	6,766,754.0	1,835,377.4	989.00					Average
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100		Average
		point292	292	6,766,902.5	1,835,415.9	992.60					Average
		point291	291	6,766,755.5	1,835,415.0	989.20					Average
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00					Average
		point432	432	6,766,404.5	1,835,412.9	984.70					Average
		point303	303	6,766,337.5	1,835,409.2	985.00					Average
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50					Average
		point312	312	6,765,393.5	1,835,410.8	972.50					Average
		point311	311	6,765,428.5	1,835,587.1	971.00					Average
		point310	310	6,765,470.0	1,835,755.1	970.50					Average
		point309	309	6,765,519.5	1,836,010.5	972.00					Average
		point308	308	6,765,571.5	1,836,274.8	974.00					Average
		point307	307	6,765,596.5	1,836,444.6	976.00					Average
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100		Average
		point403	403	6,765,707.0	1,837,002.5	978.70					Average
		point404	404	6,765,713.5	1,837,015.4	978.00					Average
		point319	319	6,765,725.5	1,837,037.5	977.40					Average
		point318	318	6,765,777.5	1,837,150.5	969.50					Average
		point317	317	6,765,800.5	1,837,183.2	969.50					Average
		point316	316	6,765,829.5	1,837,210.5	969.50					Average
		point315	315	6,765,853.0	1,837,247.2	969.50					Average
		point314	314	6,765,892.0	1,837,349.2	969.50					Average

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		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

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		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

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		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

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		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

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Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40					
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

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I-215/Barton Road Interchange

		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse SB	12.0	point535	535	6,765,862.0	1,835,377.6	979.00				Average
		point536	536	6,765,848.0	1,835,263.8	975.50				Average
		point537	537	6,765,777.5	1,835,155.6	972.50				Average
		point538	538	6,765,702.5	1,835,060.4	970.50				Average
		point539	539	6,765,620.5	1,834,962.1	969.00				Average
		point540	540	6,765,452.0	1,834,758.2	964.50				
La Crosse Avenue (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point550	550	6,765,886.0	1,835,408.9	981.00					
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50					Average
		point37	37	6,763,604.0	1,832,456.6	914.50					Average
		point36	36	6,763,754.5	1,832,654.2	915.10					Average
		point35	35	6,763,905.5	1,832,849.8	916.10					Average
		point34	34	6,764,066.0	1,833,033.0	917.00					Average
		point33	33	6,764,233.5	1,833,215.5	918.50					Average
		point32	32	6,764,413.0	1,833,410.2	925.00					Average
		point31	31	6,764,553.5	1,833,563.0	932.00					Average
		point30	30	6,764,706.0	1,833,725.1	940.00					Average
		point29	29	6,764,871.5	1,833,906.1	949.00					Average
		point28	28	6,765,012.0	1,834,058.8	955.00					Average
		point27	27	6,765,176.5	1,834,233.2	958.90					Average
		point26	26	6,765,345.5	1,834,416.4	960.20					Average
		point25	25	6,765,527.5	1,834,612.0	960.80					Average
		point534	534	6,765,700.5	1,834,797.2	961.60					Average
		point23	23	6,765,891.0	1,835,003.8	962.10					Average
		point22	22	6,766,048.5	1,835,174.6	962.90					Average
		point21	21	6,766,219.5	1,835,357.8	963.20					Average
		point533	533	6,766,311.0	1,835,456.6	965.60					Average
		point20	20	6,766,402.5	1,835,555.5	968.00					Average
		point19	19	6,766,570.5	1,835,735.8	976.00					Average
		point18	18	6,766,741.5	1,835,920.5	985.00					Average
		point17	17	6,766,882.5	1,836,070.9	992.00					Average
		point16	16	6,767,044.5	1,836,249.0	999.00					Average
		point15	15	6,767,225.5	1,836,441.8	1,004.00					Average
		point14	14	6,767,407.5	1,836,639.4	1,006.20					Average
		point13	13	6,767,568.5	1,836,812.4	1,006.40					Average
		point12	12	6,767,719.0	1,836,975.2	1,007.10					Average
		point11	11	6,767,875.5	1,837,142.4	1,007.00					Average
		point10	10	6,768,047.0	1,837,328.5	1,004.90					Average
		point9	9	6,768,198.0	1,837,490.8	1,002.00					Average
		point8	8	6,768,380.0	1,837,686.9	998.40					Average
		point7	7	6,768,531.0	1,837,849.8	995.40					Average
		point6	6	6,768,688.0	1,838,010.4	993.00					Average
		point5	5	6,768,836.5	1,838,152.2	990.00					Average
		point4	4	6,768,994.0	1,838,300.6	985.00					Average
		point3	3	6,769,165.5	1,838,448.9	979.50					Average
		point2	2	6,769,345.5	1,838,603.8	973.60					Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point1	1	6,769,539.0	1,838,765.9	966.40					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50					Average
		point156	156	6,769,292.0	1,838,653.6	973.10					Average
		point155	155	6,769,114.0	1,838,500.6	979.80					Average
		point154	154	6,768,941.5	1,838,350.8	985.80					Average
		point153	153	6,768,787.0	1,838,201.9	991.00					Average
		point152	152	6,768,637.5	1,838,059.1	994.00					Average
		point151	151	6,768,481.5	1,837,899.8	996.50					Average
		point150	150	6,768,324.5	1,837,731.5	998.70					Average
		point149	149	6,768,146.5	1,837,539.2	1,001.90					Average
		point148	148	6,767,994.0	1,837,374.8	1,004.80					Average
		point147	147	6,767,820.5	1,837,188.2	1,006.90					Average
		point146	146	6,767,668.0	1,837,022.6	1,007.10					Average
		point145	145	6,767,517.0	1,836,860.6	1,006.70					Average
		point144	144	6,767,356.0	1,836,686.2	1,006.20					Average
		point532	532	6,767,172.0	1,836,487.9	1,004.00					Average
		point142	142	6,766,991.0	1,836,292.2	998.90					Average
		point141	141	6,766,828.5	1,836,116.8	992.00					Average
		point140	140	6,766,689.5	1,835,966.8	984.50					Average
		point139	139	6,766,517.0	1,835,781.0	976.00					Average
		point138	138	6,766,348.0	1,835,599.4	967.80					Average
		point531	531	6,766,133.0	1,835,368.1	963.30					Average
		point136	136	6,765,999.5	1,835,223.5	962.80					Average
		point135	135	6,765,837.0	1,835,048.1	962.20					Average
		point134	134	6,765,647.5	1,834,843.9	961.70					Average
		point133	133	6,765,474.0	1,834,657.2	960.90					Average
		point132	132	6,765,292.5	1,834,461.8	960.40					Average
		point131	131	6,765,124.5	1,834,280.2	958.70					Average
		point130	130	6,764,960.5	1,834,102.9	954.80					Average
		point129	129	6,764,819.5	1,833,952.1	948.40					Average
		point128	128	6,764,650.5	1,833,769.1	939.80					Average
		point127	127	6,764,500.5	1,833,607.5	932.00					Average
		point126	126	6,764,368.5	1,833,463.8	925.50					Average
		point125	125	6,764,179.0	1,833,259.9	919.50					Average
		point124	124	6,764,013.0	1,833,077.6	918.20					Average
		point123	123	6,763,850.5	1,832,887.6	917.10					Average
		point122	122	6,763,711.5	1,832,715.1	916.30					Average
		point121	121	6,763,546.0	1,832,498.2	915.40					Average
		point120	120	6,763,362.0	1,832,252.2	915.40					

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse NB	12.0	point552	552	6,765,466.0	1,834,747.4	966.00				Average	
		point553	553	6,765,633.5	1,834,955.2	969.00				Average	
		point554	554	6,765,713.0	1,835,053.5	971.00				Average	
		point555	555	6,765,794.0	1,835,144.2	973.00				Average	
		point556	556	6,765,864.5	1,835,255.5	976.00				Average	
		point557	557	6,765,905.5	1,835,377.1	979.00					

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

LSA Associates, Inc.			22 June 2011	
Teak Kim			TNM 2.5	
INPUT: TERRAIN LINES				
PROJECT/CONTRACT:	I-215/Barton Road Interchange			
RUN:	Calibration 12			
Terrain Line	Points			
Name	No.	Coordinates (ground)		
		X	Y	Z
		ft	ft	ft
Terrain Line1	1	6,764,381.5	1,833,279.8	942.00
	2	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,016.5	1,833,967.0	943.00
	6	6,765,092.0	1,834,055.4	945.00
	7	6,765,258.0	1,834,237.6	954.00
	8	6,765,400.0	1,834,395.8	960.00
	9	6,765,541.0	1,834,544.6	964.00
	10	6,765,738.0	1,834,749.4	972.00
Terrain Line6	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	16	6,766,314.0	1,835,368.2	984.00
Terrain Line7	22	6,766,507.0	1,835,493.1	986.00
	23	6,766,573.5	1,835,591.8	987.00
	24	6,766,630.0	1,835,668.0	987.00
	25	6,766,679.5	1,835,723.8	989.00
	26	6,766,758.0	1,835,818.9	990.00
	27	6,766,863.0	1,835,948.1	994.00
	28	6,766,975.0	1,836,081.6	998.00
	29	6,767,078.5	1,836,200.6	1,001.00
	30	6,767,228.0	1,836,360.2	1,004.00
	31	6,767,393.0	1,836,514.6	1,010.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00

INPUT: TERRAIN LINES

I-215/Barton Road Interchange

	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00
	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line15	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00

INPUT: TERRAIN LINES**I-215/Barton Road Interchange**

	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line14	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line11	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
	99	6,766,171.0	1,835,508.8	985.00
	100	6,766,103.5	1,835,420.1	982.00
Terrain Line8	102	6,767,393.0	1,836,514.6	1,010.00
	32	6,767,432.0	1,836,546.8	1,010.00
Terrain Line9	106	6,767,811.0	1,836,956.8	1,015.00
	37	6,767,911.0	1,837,066.2	1,017.00
	38	6,767,981.5	1,837,102.2	1,020.00
Terrain Line5	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,206.5	1,835,144.8	975.00
Terrain Line13	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,149.0	1,836,589.2	992.00
Terrain Line12	125	6,765,595.0	1,835,437.0	980.00
	126	6,765,566.0	1,835,436.2	979.30
	127	6,765,445.5	1,835,448.2	976.50

INPUT: ROADWAYS

I-215/Barton Road Interchange

LSA Associates, Inc.					22 June 2011					
Teak Kim					TNM 2.5					

INPUT: ROADWAYS										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA
PROJECT/CONTRACT:	I-215/Barton Road Interchange									
RUN:	Calibration 12									

Roadway	Width	Points	Coordinates (pavement)			Flow Control			Segment		
Name		Name	No.	X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
I-215 NB Lane 3	36.0	point76	76	6,763,402.0	1,832,218.9	915.20				Average	
		point75	75	6,763,588.5	1,832,466.2	915.20				Average	
		point74	74	6,763,739.5	1,832,664.8	915.60				Average	
		point73	73	6,763,892.0	1,832,859.2	916.50				Average	
		point72	72	6,764,051.5	1,833,044.8	917.70				Average	
		point71	71	6,764,219.0	1,833,227.5	919.20				Average	
		point70	70	6,764,399.5	1,833,422.5	925.20				Average	
		point69	69	6,764,540.5	1,833,573.9	932.10				Average	
		point68	68	6,764,691.0	1,833,736.1	940.00				Average	
		point67	67	6,764,858.5	1,833,916.9	949.00				Average	
		point66	66	6,764,998.5	1,834,069.9	955.20				Average	
		point65	65	6,765,162.0	1,834,245.8	959.20				Average	
		point64	64	6,765,331.0	1,834,427.2	960.40				Average	
		point63	63	6,765,512.5	1,834,623.5	961.20				Average	
		point62	62	6,765,686.0	1,834,810.2	961.90				Average	
		point61	61	6,765,876.0	1,835,015.1	962.30				Average	
		point60	60	6,766,035.5	1,835,186.2	962.90				Average	
		point59	59	6,766,204.0	1,835,368.2	963.00				Average	
		point58	58	6,766,388.0	1,835,567.0	968.10				Average	
		point57	57	6,766,556.0	1,835,748.0	976.00				Average	
		point56	56	6,766,728.5	1,835,933.0	985.00				Average	
		point55	55	6,766,867.0	1,836,084.2	992.00				Average	
		point54	54	6,767,030.5	1,836,259.8	999.10				Average	
		point53	53	6,767,211.0	1,836,453.8	1,004.30				Average	
		point52	52	6,767,393.5	1,836,651.6	1,006.70				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point51	51	6,767,554.5	1,836,824.8	1,006.80				Average
		point50	50	6,767,706.5	1,836,988.2	1,007.50				Average
		point49	49	6,767,860.5	1,837,155.0	1,007.40				Average
		point48	48	6,768,032.0	1,837,339.6	1,004.80				Average
		point47	47	6,768,185.0	1,837,504.4	1,002.30				Average
		point46	46	6,768,365.0	1,837,698.0	998.70				Average
		point45	45	6,768,518.0	1,837,862.1	995.60				Average
		point44	44	6,768,674.5	1,838,022.8	993.30				Average
		point43	43	6,768,823.5	1,838,166.2	990.10				Average
		point42	42	6,768,980.5	1,838,313.8	985.20				Average
		point41	41	6,769,152.5	1,838,462.6	979.50				Average
		point40	40	6,769,332.5	1,838,617.5	973.70				Average
		point39	39	6,769,526.0	1,838,779.8	966.90				
I-215 SB Lane 3	36.0	point115	115	6,769,500.5	1,838,803.0	967.00				Average
		point114	114	6,769,306.0	1,838,640.9	973.60				Average
		point113	113	6,769,128.0	1,838,488.2	979.80				Average
		point112	112	6,768,955.5	1,838,338.1	985.60				Average
		point111	111	6,768,799.0	1,838,190.2	990.80				Average
		point110	110	6,768,650.0	1,838,046.2	993.50				Average
		point109	109	6,768,494.0	1,837,885.0	996.00				Average
		point108	108	6,768,337.5	1,837,718.9	998.70				Average
		point107	107	6,768,160.0	1,837,527.0	1,002.00				Average
		point106	106	6,768,008.0	1,837,361.8	1,004.60				Average
		point105	105	6,767,834.0	1,837,175.4	1,007.00				Average
		point104	104	6,767,681.5	1,837,010.9	1,007.30				Average
		point103	103	6,767,530.0	1,836,848.2	1,007.10				Average
		point102	102	6,767,369.5	1,836,674.5	1,006.40				Average
		point101	101	6,767,185.5	1,836,475.6	1,004.10				Average
		point100	100	6,767,004.0	1,836,280.2	999.10				Average
		point99	99	6,766,841.5	1,836,104.6	992.10				Average
		point98	98	6,766,703.0	1,835,954.8	984.90				Average
		point97	97	6,766,530.0	1,835,768.2	976.10				Average
		point96	96	6,766,361.5	1,835,587.1	967.90				Average
		point95	95	6,766,157.5	1,835,368.2	963.10				Average
		point94	94	6,766,012.5	1,835,211.8	963.00				Average
		point93	93	6,765,850.5	1,835,035.8	962.30				Average
		point92	92	6,765,661.0	1,834,831.2	961.80				Average
		point91	91	6,765,487.5	1,834,644.8	961.20				Average
		point90	90	6,765,305.5	1,834,449.4	960.40				Average

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		point89	89	6,765,137.0	1,834,268.0	959.10				Average
		point88	88	6,764,973.5	1,834,091.2	955.20				Average
		point87	87	6,764,832.5	1,833,939.6	948.90				Average
		point86	86	6,764,664.5	1,833,756.9	940.00				Average
		point85	85	6,764,514.0	1,833,595.8	932.10				Average
		point84	84	6,764,376.5	1,833,446.2	925.10				Average
		point83	83	6,764,192.0	1,833,248.2	919.20				Average
		point82	82	6,764,026.5	1,833,065.4	917.90				Average
		point81	81	6,763,865.5	1,832,876.4	916.80				Average
		point80	80	6,763,711.5	1,832,687.1	916.00				Average
		point79	79	6,763,561.5	1,832,486.8	915.20				Average
		point78	78	6,763,373.5	1,832,237.2	915.20				
Barton SB Off Ramp	25.0	point199	199	6,767,167.5	1,836,492.0	1,003.80	Onramp	0.00	100	Average
		point200	200	6,767,028.0	1,836,352.8	1,000.00				Average
		point201	201	6,766,971.5	1,836,301.6	998.00				Average
		point202	202	6,766,804.0	1,836,155.5	992.30				Average
		point203	203	6,766,657.0	1,836,032.0	993.00				Average
		point204	204	6,766,442.0	1,835,862.2	994.00				Average
		point205	205	6,766,311.5	1,835,755.9	993.00				Average
		point206	206	6,766,172.5	1,835,642.0	989.00				Average
		point207	207	6,766,041.5	1,835,570.6	984.00				Average
		point208	208	6,766,009.0	1,835,550.8	983.00				Average
		point209	209	6,765,976.0	1,835,520.2	981.60				Average
		point210	210	6,765,958.5	1,835,482.5	981.00				Average
		point435	435	6,765,953.5	1,835,429.2	980.50				Average
		point211	211	6,765,951.0	1,835,406.5	981.00				
Barton NB Off Ramp	18.0	point217	217	6,765,704.0	1,834,794.9	961.50	Onramp	0.00	100	Average
		point218	218	6,765,817.0	1,834,896.8	961.60				Average
		point219	219	6,765,914.0	1,834,984.1	961.50				Average
		point220	220	6,765,996.5	1,835,058.9	960.70				Average
		point221	221	6,766,079.0	1,835,124.8	964.00				Average
		point222	222	6,766,137.0	1,835,156.5	967.00				Average
		point223	223	6,766,209.0	1,835,184.1	972.00				Average
		point224	224	6,766,307.5	1,835,213.4	978.00				Average
		point225	225	6,766,380.0	1,835,234.4	982.00				Average
		point226	226	6,766,426.5	1,835,269.8	984.00				Average
		point227	227	6,766,477.5	1,835,322.8	985.10				Average
		point228	228	6,766,517.5	1,835,359.2	985.50				Average
		point420	420	6,766,551.5	1,835,368.2	985.80				Average

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		point229	229	6,766,581.5	1,835,376.4	986.50					
Barton EB	25.0	point257	257	6,763,846.5	1,835,364.8	952.00				Average	
		point256	256	6,764,014.5	1,835,366.4	953.50				Average	
		point255	255	6,764,147.0	1,835,365.4	953.00				Average	
		point254	254	6,764,493.5	1,835,375.1	965.50				Average	
		point253	253	6,764,793.0	1,835,380.8	979.70				Average	
		point252	252	6,765,094.5	1,835,380.8	972.00				Average	
		point251	251	6,765,404.5	1,835,380.8	973.00				Average	
		point250	250	6,765,697.0	1,835,379.8	977.30				Average	
		point436	436	6,765,976.0	1,835,376.5	980.50					
Barton EB	25.0	point260	260	6,766,560.5	1,835,376.2	986.50				Average	
		point421	421	6,766,581.5	1,835,376.4	986.50				Average	
		point259	259	6,766,754.0	1,835,377.4	989.00				Average	
		point258	258	6,766,901.0	1,835,380.8	992.60					
Barton WB	25.0	point397	397	6,767,004.5	1,835,417.5	995.70	Signal	0.00	100	Average	
		point292	292	6,766,902.5	1,835,415.9	992.60				Average	
		point291	291	6,766,755.5	1,835,415.0	989.20				Average	
		point290	290	6,766,559.5	1,835,413.8	986.50					
Barton WB	25.0	point304	304	6,766,552.5	1,835,421.6	986.00				Average	
		point432	432	6,766,404.5	1,835,412.9	984.70				Average	
		point303	303	6,766,337.5	1,835,409.2	985.00				Average	Y
		point302	302	6,766,037.0	1,835,405.8	981.70					
Grand Terrace NB	20.0	point424	424	6,765,390.5	1,835,399.5	972.50				Average	
		point312	312	6,765,393.5	1,835,410.8	972.50				Average	
		point311	311	6,765,428.5	1,835,587.1	971.00				Average	
		point310	310	6,765,470.0	1,835,755.1	970.50				Average	
		point309	309	6,765,519.5	1,836,010.5	972.00				Average	
		point308	308	6,765,571.5	1,836,274.8	974.00				Average	
		point307	307	6,765,596.5	1,836,444.6	976.00				Average	
		point306	306	6,765,696.5	1,836,976.8	979.30					
Grand Terrace NB	15.0	point399	399	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100	Average	
		point403	403	6,765,707.0	1,837,002.5	978.70				Average	
		point404	404	6,765,713.5	1,837,015.4	978.00				Average	
		point319	319	6,765,725.5	1,837,037.5	977.40				Average	
		point318	318	6,765,777.5	1,837,150.5	969.50				Average	
		point317	317	6,765,800.5	1,837,183.2	969.50				Average	
		point316	316	6,765,829.5	1,837,210.5	969.50				Average	
		point315	315	6,765,853.0	1,837,247.2	969.50				Average	
		point314	314	6,765,892.0	1,837,349.2	969.50				Average	

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		point313	313	6,765,991.0	1,837,558.8	969.50					
Grand Terrace SB	20.0	point400	400	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average	
		point406	406	6,765,701.5	1,837,021.2	978.60				Average	
		point407	407	6,765,697.0	1,837,009.1	978.80				Average	
		point326	326	6,765,687.5	1,836,981.9	979.30				Average	
		point325	325	6,765,592.0	1,836,491.5	976.00				Average	
		point324	324	6,765,547.5	1,836,259.6	974.00				Average	
		point323	323	6,765,499.0	1,836,007.2	972.00				Average	
		point322	322	6,765,448.5	1,835,757.4	970.50				Average	
		point321	321	6,765,412.0	1,835,580.6	971.00				Average	
		point425	425	6,765,379.5	1,835,410.8	972.30				Average	
		point320	320	6,765,376.5	1,835,399.5	972.30					
Grand Terrace SB	15.0	point333	333	6,765,977.0	1,837,563.9	968.90				Average	
		point332	332	6,765,879.5	1,837,352.8	968.90				Average	
		point331	331	6,765,839.5	1,837,252.1	968.90				Average	
		point330	330	6,765,817.5	1,837,216.2	968.90				Average	
		point329	329	6,765,789.5	1,837,190.9	968.90				Average	
		point328	328	6,765,764.0	1,837,157.6	968.90				Average	
		point327	327	6,765,711.0	1,837,042.0	977.10					
Vivienda Ct EB	12.0	point334	334	6,765,246.0	1,837,187.5	978.40				Average	
		point335	335	6,765,431.5	1,837,127.8	978.40				Average	
		point336	336	6,765,520.0	1,837,101.2	978.40				Average	
		point337	337	6,765,681.0	1,837,018.0	978.40					
Vivienda Ct EB	18.0	point402	402	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average	
		point410	410	6,765,697.0	1,837,009.1	978.80				Average	
		point411	411	6,765,707.0	1,837,002.5	978.70				Average	
		point338	338	6,765,724.0	1,836,991.0	979.60				Average	
		point339	339	6,765,946.5	1,836,861.4	985.30				Average	
		point340	340	6,766,385.0	1,836,601.9	992.00				Average	
		point341	341	6,766,868.5	1,836,310.5	999.00					
Vivienda Ct EB	18.0	point342	342	6,767,094.0	1,836,184.8	1,003.60				Average	
		point343	343	6,767,197.5	1,836,120.8	1,007.50				Average	
		point419	419	6,767,352.0	1,836,022.4	1,006.50				Average	
		point344	344	6,767,370.0	1,836,012.4	1,004.70					
Vivienda NB	24.0	point415	415	6,767,279.0	1,835,420.1	1,003.10				Average	
		point353	353	6,767,281.5	1,835,441.2	1,002.00				Average	
		point352	352	6,767,315.0	1,835,671.0	1,003.20				Average	
		point351	351	6,767,372.0	1,835,924.6	1,004.50				Average	
		point350	350	6,767,431.0	1,836,204.8	1,010.00				Average	

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		point349	349	6,767,464.0	1,836,350.5	1,010.50				Average
		point348	348	6,767,489.5	1,836,404.0	1,011.00				Average
		point347	347	6,767,538.0	1,836,447.5	1,011.30				Average
		point346	346	6,767,570.5	1,836,450.9	1,011.30				Average
		point345	345	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	24.0	point362	362	6,767,587.0	1,836,506.8	1,011.40				Average
		point361	361	6,767,541.0	1,836,484.5	1,011.00				Average
		point360	360	6,767,524.5	1,836,463.8	1,011.00				Average
		point359	359	6,767,474.5	1,836,413.6	1,010.50				Average
		point358	358	6,767,444.0	1,836,358.0	1,010.50				Average
		point357	357	6,767,414.0	1,836,206.2	1,009.80				Average
		point416	416	6,767,392.5	1,836,112.9	1,008.10				Average
		point417	417	6,767,374.5	1,836,033.4	1,006.40				Average
		point356	356	6,767,370.0	1,836,012.4	1,004.70				Average
		point355	355	6,767,295.0	1,835,671.9	1,003.30				Average
		point414	414	6,767,254.0	1,835,441.4	1,001.30				Average
		point354	354	6,767,252.0	1,835,419.1	1,002.10				
Michigan NB	26.0	point426	426	6,766,988.0	1,834,055.4	991.30	Stop	0.00	100	Average
		point363	363	6,766,987.0	1,834,124.9	991.30				Average
		point364	364	6,766,985.5	1,834,511.6	991.30				Average
		point365	365	6,766,983.0	1,834,719.8	992.10				Average
		point366	366	6,766,983.5	1,834,892.0	992.80				Average
		point367	367	6,766,979.5	1,835,031.9	993.00				Average
		point368	368	6,766,978.5	1,835,222.4	994.00				Average
		point430	430	6,766,977.5	1,835,349.9	994.60				Average
		point369	369	6,766,977.5	1,835,381.2	994.50				
Michigan NB	26.0	point370	370	6,767,009.0	1,832,948.9	991.30				Average
		point371	371	6,767,001.0	1,833,231.8	991.30				Average
		point372	372	6,766,993.5	1,833,648.6	991.30				Average
		point373	373	6,766,988.0	1,834,055.4	991.30				
Michigan SB	26.0	point431	431	6,766,952.5	1,835,380.8	994.00				Average
		point374	374	6,766,952.5	1,835,349.5	994.00				Average
		point375	375	6,766,954.5	1,835,220.8	993.60				Average
		point376	376	6,766,953.5	1,835,024.8	992.00				Average
		point377	377	6,766,963.5	1,834,891.6	992.70				Average
		point378	378	6,766,960.5	1,834,718.8	992.40				Average
		point379	379	6,766,962.5	1,834,513.9	991.20				Average
		point380	380	6,766,963.5	1,834,126.0	991.20				
Michigan SB	26.0	point427	427	6,766,963.5	1,834,126.0	991.20	Stop	0.00	100	Average

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		point384	384	6,766,964.0	1,834,054.5	991.20				Average	
		point383	383	6,766,976.0	1,833,647.6	991.20				Average	
		point382	382	6,766,982.5	1,833,230.0	991.20				Average	
		point381	381	6,766,983.5	1,832,948.8	991.20					
Vivienda Ct WB Ln	12.0	point401	401	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point408	408	6,765,713.5	1,837,015.4	978.00				Average	
		point409	409	6,765,701.5	1,837,021.2	978.60				Average	
		point385	385	6,765,684.5	1,837,028.4	978.30				Average	
		point386	386	6,765,524.0	1,837,110.9	978.30				Average	
		point387	387	6,765,433.5	1,837,135.9	978.30				Average	
		point388	388	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	18.0	point389	389	6,766,870.5	1,836,321.4	999.00				Average	
		point390	390	6,766,387.5	1,836,610.4	992.00				Average	
		point391	391	6,765,952.0	1,836,871.0	985.30				Average	
		point392	392	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	18.0	point418	418	6,767,374.5	1,836,033.4	1,006.40				Average	
		point393	393	6,767,360.0	1,836,041.5	1,006.50				Average	
		point394	394	6,767,204.0	1,836,136.2	1,007.50				Average	
		point395	395	6,767,103.0	1,836,197.5	1,003.60					
Newport Avenue EB	36.0	point440	440	6,767,271.0	1,837,561.9	1,021.00				Average	
		point457	457	6,767,544.5	1,837,402.0	1,023.33				Average	
		point458	458	6,767,796.5	1,837,254.2	1,025.67				Average	Y
		point459	459	6,767,950.0	1,837,164.5	1,026.83				Average	
		point441	441	6,768,091.0	1,837,082.1	1,028.00				Average	
		point442	442	6,768,164.0	1,837,041.5	1,028.00					
Barton EB	25.0	point444	444	6,765,976.0	1,835,376.5	980.50	Signal	0.00	100	Average	
		point249	249	6,766,035.5	1,835,376.2	981.80				Average	Y
		point248	248	6,766,339.5	1,835,379.8	984.90				Average	
		point247	247	6,766,551.5	1,835,381.9	986.50					
Barton WB	25.0	point445	445	6,766,037.0	1,835,405.8	981.70	Signal	0.00	100	Average	
		point434	434	6,765,951.0	1,835,406.5	981.00				Average	
		point301	301	6,765,688.5	1,835,408.2	977.00				Average	
		point300	300	6,765,416.0	1,835,400.1	973.00				Average	
		point422	422	6,765,390.5	1,835,399.5	972.50				Average	
		point423	423	6,765,376.5	1,835,399.5	972.30				Average	
		point299	299	6,765,094.5	1,835,395.2	971.90				Average	
		point298	298	6,764,792.5	1,835,393.0	980.00				Average	
		point297	297	6,764,491.5	1,835,387.8	965.40				Average	
		point296	296	6,764,148.0	1,835,387.1	953.50				Average	

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		point295	295	6,764,015.0	1,835,393.1	953.30				Average	
		point294	294	6,763,849.0	1,835,391.4	952.00					
Barton EB	25.0	point398	398	6,766,901.0	1,835,380.8	992.60	Signal	0.00	100	Average	
		point428	428	6,766,952.5	1,835,380.8	994.00				Average	
		point429	429	6,766,977.5	1,835,381.2	994.50				Average	
		point268	268	6,767,006.0	1,835,381.9	995.50				Average	
		point267	267	6,767,235.0	1,835,385.4	1,001.00				Average	
		point266	266	6,767,451.0	1,835,387.6	1,004.30				Average	
		point265	265	6,767,666.5	1,835,391.0	1,008.00				Average	
		point264	264	6,767,875.0	1,835,394.5	1,013.00				Average	
		point263	263	6,768,079.0	1,835,395.6	1,017.90				Average	
		point262	262	6,768,314.5	1,835,398.8	1,024.00				Average	
		point439	439	6,768,516.5	1,835,402.0	1,029.40				Average	
		point273	273	6,768,740.0	1,835,404.2	1,029.40				Average	
		point272	272	6,768,978.0	1,835,407.9	1,029.40				Average	
		point271	271	6,769,179.5	1,835,409.5	1,029.40				Average	
		point270	270	6,769,415.5	1,835,411.2	1,029.40				Average	
		point269	269	6,769,592.5	1,835,410.2	1,029.40					
Barton WB	25.0	point280	280	6,769,593.5	1,835,450.2	1,028.70				Average	
		point279	279	6,769,415.5	1,835,445.6	1,028.70				Average	
		point278	278	6,769,179.0	1,835,442.9	1,028.70				Average	
		point277	277	6,768,978.5	1,835,440.1	1,028.70				Average	
		point438	438	6,768,740.5	1,835,437.0	1,028.70				Average	
		point289	289	6,768,516.5	1,835,437.2	1,028.70				Average	
		point288	288	6,768,315.5	1,835,434.6	1,023.70				Average	
		point287	287	6,768,079.5	1,835,430.1	1,017.60				Average	
		point286	286	6,767,875.5	1,835,428.5	1,013.00				Average	
		point285	285	6,767,666.0	1,835,426.8	1,008.00				Average	
		point284	284	6,767,451.5	1,835,423.2	1,004.00				Average	
		point412	412	6,767,279.0	1,835,420.1	1,003.10				Average	
		point413	413	6,767,252.0	1,835,419.1	1,002.10				Average	
		point283	283	6,767,235.5	1,835,419.6	1,001.20				Average	
		point282	282	6,767,004.5	1,835,417.5	995.70					
Newport Avenue WB	12.0	point466	466	6,768,168.5	1,837,048.9	1,028.00				Average	
		point465	465	6,768,095.5	1,837,089.5	1,028.00				Average	
		point464	464	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point463	463	6,767,801.0	1,837,261.8	1,025.70				Average	
		point462	462	6,767,549.0	1,837,409.4	1,023.30				Average	
		point461	461	6,767,275.5	1,837,569.2	1,021.00					

INPUT: ROADWAYS

I-215/Barton Road Interchange

Barton Median	24.0	point485	485	6,765,698.0	1,835,393.8	977.30				Average	
		point484	484	6,766,036.0	1,835,390.2	981.80				Average	Y
		point483	483	6,766,340.0	1,835,393.8	984.90				Average	
		point482	482	6,766,558.5	1,835,395.2	986.50				Average	
		point481	481	6,766,755.5	1,835,397.0	989.00				Average	
		point480	480	6,766,901.5	1,835,398.2	992.60				Average	
		point479	479	6,767,004.5	1,835,398.6	995.50				Average	
		point478	478	6,767,236.0	1,835,402.8	1,001.00				Average	
		point477	477	6,767,451.5	1,835,406.4	1,004.30				Average	
		point476	476	6,767,666.0	1,835,409.0	1,008.00				Average	
		point475	475	6,767,875.0	1,835,411.5	1,013.00				Average	
		point474	474	6,768,080.5	1,835,413.1	1,017.90				Average	
		point473	473	6,768,316.0	1,835,416.2	1,024.00				Average	
		point472	472	6,768,518.0	1,835,419.5	1,029.40				Average	
		point471	471	6,768,741.5	1,835,421.6	1,029.40				Average	
		point470	470	6,768,979.5	1,835,425.4	1,029.40				Average	
		point469	469	6,769,181.0	1,835,427.0	1,029.40				Average	
		point468	468	6,769,417.0	1,835,428.8	1,029.40				Average	
		point467	467	6,769,594.0	1,835,427.8	1,029.40				Average	
Barton SB On Ramp	18.0	point437	437	6,765,976.0	1,835,376.5	980.50	Onramp	10.00	100	Average	
		point172	172	6,765,974.5	1,835,356.2	980.50				Average	
		point171	171	6,765,971.5	1,835,324.2	980.00				Average	
		point170	170	6,765,951.5	1,835,283.4	979.00				Average	
		point169	169	6,765,925.5	1,835,249.0	978.00				Average	
		point168	168	6,765,866.5	1,835,173.9	974.00				Average	
		point167	167	6,765,800.0	1,835,087.9	968.00				Average	
		point166	166	6,765,728.5	1,834,994.1	963.00				Average	
		point165	165	6,765,625.0	1,834,861.2	960.90				Average	
		point164	164	6,765,548.0	1,834,769.9	961.00				Average	
		point163	163	6,765,465.5	1,834,673.2	960.90				Average	
		point162	162	6,765,391.5	1,834,587.6	960.20				Average	
		point161	161	6,765,287.5	1,834,466.6	960.00				Average	
		point160	160	6,765,121.0	1,834,282.8	958.50				Average	
		point446	446	6,764,957.5	1,834,107.5	954.80				Average	
		point447	447	6,764,815.0	1,833,955.5	948.40				Average	
		point448	448	6,764,648.0	1,833,772.0	939.80				Average	
		point449	449	6,764,497.0	1,833,609.6	932.00				Average	
		point159	159	6,764,366.0	1,833,468.2	925.50				Average	
		point126	505	6,764,365.0	1,833,467.0	925.50				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point125	506	6,764,175.5	1,833,263.1	919.50				Average
		point124	507	6,764,009.5	1,833,080.9	918.20				Average
		point123	508	6,763,847.0	1,832,890.9	917.10				Average
		point122	509	6,763,708.0	1,832,718.4	916.30				Average
		point121	510	6,763,542.5	1,832,501.5	915.40				Average
		point120	511	6,763,358.5	1,832,255.5	915.40				
Barton NB On Ramp	18.0	point433	433	6,766,404.5	1,835,412.9	984.70	Onramp	10.00	100	Average
		point239	239	6,766,418.0	1,835,431.4	984.70				Average
		point238	238	6,766,512.0	1,835,558.2	983.00				Average
		point237	237	6,766,620.0	1,835,704.2	981.00				Average
		point236	236	6,766,724.0	1,835,843.4	982.00				Average
		point235	235	6,766,809.5	1,835,953.8	987.00				Average
		point234	234	6,766,908.5	1,836,070.2	992.00				Average
		point233	233	6,767,049.5	1,836,245.2	998.80				Average
		point232	232	6,767,229.5	1,836,437.8	1,003.90				Average
		point231	231	6,767,411.0	1,836,636.0	1,006.10				Average
		point450	450	6,767,570.5	1,836,809.5	1,006.40				Average
		point451	451	6,767,721.0	1,836,972.6	1,007.10				Average
		point452	452	6,767,878.5	1,837,141.5	1,007.00				Average
		point453	453	6,768,048.5	1,837,326.0	1,004.90				Average
		point454	454	6,768,200.5	1,837,487.6	1,002.00				Average
		point456	456	6,768,382.0	1,837,685.4	998.40				Average
		point7	522	6,768,533.0	1,837,848.6	995.40				Average
		point6	523	6,768,690.0	1,838,009.2	993.00				Average
		point5	524	6,768,838.5	1,838,151.1	990.00				Average
		point4	525	6,768,996.0	1,838,299.5	985.00				Average
		point3	526	6,769,167.5	1,838,447.8	979.50				Average
		point2	527	6,769,347.5	1,838,602.6	973.60				Average
		point1	528	6,769,541.0	1,838,764.8	966.40				
La Crosse SB	12.0	point535	535	6,765,862.0	1,835,377.6	979.00				Average
		point536	536	6,765,848.0	1,835,263.8	975.50				Average
		point537	537	6,765,777.5	1,835,155.6	972.50				Average
		point538	538	6,765,702.5	1,835,060.4	970.50				Average
		point539	539	6,765,620.5	1,834,962.1	969.00				Average
		point540	540	6,765,452.0	1,834,758.2	964.50				
La Crosse Avenue (northern)	12.0	point551	551	6,766,009.0	1,835,556.4	983.00				Average
		point547	547	6,765,965.5	1,835,529.5	981.60				Average
		point548	548	6,765,926.5	1,835,492.6	981.00				Average
		point549	549	6,765,893.5	1,835,433.8	980.50				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point550	550	6,765,886.0	1,835,408.9	981.00					
I-215 NB Lanes 1 & 2	24.0	point38	38	6,763,417.0	1,832,209.4	914.50				Average	
		point37	37	6,763,604.0	1,832,456.6	914.50				Average	
		point36	36	6,763,754.5	1,832,654.2	915.10				Average	
		point35	35	6,763,905.5	1,832,849.8	916.10				Average	
		point34	34	6,764,066.0	1,833,033.0	917.00				Average	
		point33	33	6,764,233.5	1,833,215.5	918.50				Average	
		point32	32	6,764,413.0	1,833,410.2	925.00				Average	
		point31	31	6,764,553.5	1,833,563.0	932.00				Average	
		point30	30	6,764,706.0	1,833,725.1	940.00				Average	
		point29	29	6,764,871.5	1,833,906.1	949.00				Average	
		point28	28	6,765,012.0	1,834,058.8	955.00				Average	
		point27	27	6,765,176.5	1,834,233.2	958.90				Average	
		point26	26	6,765,345.5	1,834,416.4	960.20				Average	
		point25	25	6,765,527.5	1,834,612.0	960.80				Average	
		point534	534	6,765,700.5	1,834,797.2	961.60				Average	
		point23	23	6,765,891.0	1,835,003.8	962.10				Average	
		point22	22	6,766,048.5	1,835,174.6	962.90				Average	
		point21	21	6,766,219.5	1,835,357.8	963.20				Average	
		point533	533	6,766,311.0	1,835,456.6	965.60				Average	
		point20	20	6,766,402.5	1,835,555.5	968.00				Average	
		point19	19	6,766,570.5	1,835,735.8	976.00				Average	
		point18	18	6,766,741.5	1,835,920.5	985.00				Average	
		point17	17	6,766,882.5	1,836,070.9	992.00				Average	
		point16	16	6,767,044.5	1,836,249.0	999.00				Average	
		point15	15	6,767,225.5	1,836,441.8	1,004.00				Average	
		point14	14	6,767,407.5	1,836,639.4	1,006.20				Average	
		point13	13	6,767,568.5	1,836,812.4	1,006.40				Average	
		point12	12	6,767,719.0	1,836,975.2	1,007.10				Average	
		point11	11	6,767,875.5	1,837,142.4	1,007.00				Average	
		point10	10	6,768,047.0	1,837,328.5	1,004.90				Average	
		point9	9	6,768,198.0	1,837,490.8	1,002.00				Average	
		point8	8	6,768,380.0	1,837,686.9	998.40				Average	
		point7	7	6,768,531.0	1,837,849.8	995.40				Average	
		point6	6	6,768,688.0	1,838,010.4	993.00				Average	
		point5	5	6,768,836.5	1,838,152.2	990.00				Average	
		point4	4	6,768,994.0	1,838,300.6	985.00				Average	
		point3	3	6,769,165.5	1,838,448.9	979.50				Average	
		point2	2	6,769,345.5	1,838,603.8	973.60				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point1	1	6,769,539.0	1,838,765.9	966.40					
I-215 SB Lanes 1 & 2	24.0	point157	157	6,769,485.5	1,838,814.8	966.50				Average	
		point156	156	6,769,292.0	1,838,653.6	973.10				Average	
		point155	155	6,769,114.0	1,838,500.6	979.80				Average	
		point154	154	6,768,941.5	1,838,350.8	985.80				Average	
		point153	153	6,768,787.0	1,838,201.9	991.00				Average	
		point152	152	6,768,637.5	1,838,059.1	994.00				Average	
		point151	151	6,768,481.5	1,837,899.8	996.50				Average	
		point150	150	6,768,324.5	1,837,731.5	998.70				Average	
		point149	149	6,768,146.5	1,837,539.2	1,001.90				Average	
		point148	148	6,767,994.0	1,837,374.8	1,004.80				Average	
		point147	147	6,767,820.5	1,837,188.2	1,006.90				Average	
		point146	146	6,767,668.0	1,837,022.6	1,007.10				Average	
		point145	145	6,767,517.0	1,836,860.6	1,006.70				Average	
		point144	144	6,767,356.0	1,836,686.2	1,006.20				Average	
		point532	532	6,767,172.0	1,836,487.9	1,004.00				Average	
		point142	142	6,766,991.0	1,836,292.2	998.90				Average	
		point141	141	6,766,828.5	1,836,116.8	992.00				Average	
		point140	140	6,766,689.5	1,835,966.8	984.50				Average	
		point139	139	6,766,517.0	1,835,781.0	976.00				Average	
		point138	138	6,766,348.0	1,835,599.4	967.80				Average	
		point531	531	6,766,133.0	1,835,368.1	963.30				Average	
		point136	136	6,765,999.5	1,835,223.5	962.80				Average	
		point135	135	6,765,837.0	1,835,048.1	962.20				Average	
		point134	134	6,765,647.5	1,834,843.9	961.70				Average	
		point133	133	6,765,474.0	1,834,657.2	960.90				Average	
		point132	132	6,765,292.5	1,834,461.8	960.40				Average	
		point131	131	6,765,124.5	1,834,280.2	958.70				Average	
		point130	130	6,764,960.5	1,834,102.9	954.80				Average	
		point129	129	6,764,819.5	1,833,952.1	948.40				Average	
		point128	128	6,764,650.5	1,833,769.1	939.80				Average	
		point127	127	6,764,500.5	1,833,607.5	932.00				Average	
		point126	126	6,764,368.5	1,833,463.8	925.50				Average	
		point125	125	6,764,179.0	1,833,259.9	919.50				Average	
		point124	124	6,764,013.0	1,833,077.6	918.20				Average	
		point123	123	6,763,850.5	1,832,887.6	917.10				Average	
		point122	122	6,763,711.5	1,832,715.1	916.30				Average	
		point121	121	6,763,546.0	1,832,498.2	915.40				Average	
		point120	120	6,763,362.0	1,832,252.2	915.40					

INPUT: ROADWAYS**I-215/Barton Road Interchange**

La Crosse NB	12.0	point552	552	6,765,466.0	1,834,747.4	966.00				Average	
		point553	553	6,765,633.5	1,834,955.2	969.00				Average	
		point554	554	6,765,713.0	1,835,053.5	971.00				Average	
		point555	555	6,765,794.0	1,835,144.2	973.00				Average	
		point556	556	6,765,864.5	1,835,255.5	976.00				Average	
		point557	557	6,765,905.5	1,835,377.1	979.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.				22 June 2011									
Teak Kim				TNM 2.5									
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:		I-215/Barton Road Interchange											
RUN:		Calibration 12											
Roadway		Points											
Name		Name		No.		Segment							
						Autos		MTrucks		HTrucks		Buses	
						V S		V S		V S		V S	
						veh/hr mph		veh/hr mph		veh/hr mph		veh/hr mph	
I-215 NB Lane 3		point76		76		1408 69		44 58		53 52		0 0	
		point75		75		1408 69		44 58		53 52		0 0	
		point74		74		1408 69		44 58		53 52		0 0	
		point73		73		1408 69		44 58		53 52		0 0	
		point72		72		1408 69		44 58		53 52		0 0	
		point71		71		1408 69		44 58		53 52		0 0	
		point70		70		1408 69		44 58		53 52		0 0	
		point69		69		1408 69		44 58		53 52		0 0	
		point68		68		1408 69		44 58		53 52		0 0	
		point67		67		1408 69		44 58		53 52		0 0	
		point66		66		1408 69		44 58		53 52		0 0	
		point65		65		1408 69		44 58		53 52		0 0	
		point64		64		1408 69		44 58		53 52		0 0	
		point63		63		1408 69		44 58		53 52		0 0	
		point62		62		1408 69		44 58		53 52		0 0	
		point61		61		1408 69		44 58		53 52		0 0	
		point60		60		1408 69		44 58		53 52		0 0	
		point59		59		1408 69		44 58		53 52		0 0	
		point58		58		1408 69		44 58		53 52		0 0	
		point57		57		1408 69		44 58		53 52		0 0	
		point56		56		1408 69		44 58		53 52		0 0	
		point55		55		1408 69		44 58		53 52		0 0	
		point54		54		1408 69		44 58		53 52		0 0	

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point53	53	1408	69	44	58	53	52	0	0	0	0
	point52	52	1408	69	44	58	53	52	0	0	0	0
	point51	51	1408	69	44	58	53	52	0	0	0	0
	point50	50	1408	69	44	58	53	52	0	0	0	0
	point49	49	1408	69	44	58	53	52	0	0	0	0
	point48	48	1408	69	44	58	53	52	0	0	0	0
	point47	47	1408	69	44	58	53	52	0	0	0	0
	point46	46	1408	69	44	58	53	52	0	0	0	0
	point45	45	1408	69	44	58	53	52	0	0	0	0
	point44	44	1408	69	44	58	53	52	0	0	0	0
	point43	43	1408	69	44	58	53	52	0	0	0	0
	point42	42	1408	69	44	58	53	52	0	0	0	0
	point41	41	1408	69	44	58	53	52	0	0	0	0
	point40	40	1408	69	44	58	53	52	0	0	0	0
	point39	39										
I-215 SB Lane 3	point115	115	1511	69	65	58	65	52	0	0	0	0
	point114	114	1511	69	65	58	65	52	0	0	0	0
	point113	113	1511	69	65	58	65	52	0	0	0	0
	point112	112	1511	69	65	58	65	52	0	0	0	0
	point111	111	1511	69	65	58	65	52	0	0	0	0
	point110	110	1511	69	65	58	65	52	0	0	0	0
	point109	109	1511	69	65	58	65	52	0	0	0	0
	point108	108	1511	69	65	58	65	52	0	0	0	0
	point107	107	1511	69	65	58	65	52	0	0	0	0
	point106	106	1511	69	65	58	65	52	0	0	0	0
	point105	105	1511	69	65	58	65	52	0	0	0	0
	point104	104	1511	69	65	58	65	52	0	0	0	0
	point103	103	1511	69	65	58	65	52	0	0	0	0
	point102	102	1511	69	65	58	65	52	0	0	0	0
	point101	101	1511	69	65	58	65	52	0	0	0	0
	point100	100	1511	69	65	58	65	52	0	0	0	0
	point99	99	1511	69	65	58	65	52	0	0	0	0
	point98	98	1511	69	65	58	65	52	0	0	0	0
	point97	97	1511	69	65	58	65	52	0	0	0	0
	point96	96	1511	69	65	58	65	52	0	0	0	0
	point95	95	1511	69	65	58	65	52	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point94	94	1511	69	65	58	65	52	0	0	0	0
	point93	93	1511	69	65	58	65	52	0	0	0	0
	point92	92	1511	69	65	58	65	52	0	0	0	0
	point91	91	1511	69	65	58	65	52	0	0	0	0
	point90	90	1511	69	65	58	65	52	0	0	0	0
	point89	89	1511	69	65	58	65	52	0	0	0	0
	point88	88	1511	69	65	58	65	52	0	0	0	0
	point87	87	1511	69	65	58	65	52	0	0	0	0
	point86	86	1511	69	65	58	65	52	0	0	0	0
	point85	85	1511	69	65	58	65	52	0	0	0	0
	point84	84	1511	69	65	58	65	52	0	0	0	0
	point83	83	1511	69	65	58	65	52	0	0	0	0
	point82	82	1511	69	65	58	65	52	0	0	0	0
	point81	81	1511	69	65	58	65	52	0	0	0	0
	point80	80	1511	69	65	58	65	52	0	0	0	0
	point79	79	1511	69	65	58	65	52	0	0	0	0
	point78	78										
Barton SB Off Ramp	point199	199	364	45	8	45	4	40	0	0	0	0
	point200	200	364	45	8	45	4	40	0	0	0	0
	point201	201	364	45	8	45	4	40	0	0	0	0
	point202	202	364	45	8	45	4	40	0	0	0	0
	point203	203	364	45	8	45	4	40	0	0	0	0
	point204	204	364	45	8	45	4	40	0	0	0	0
	point205	205	364	45	8	45	4	40	0	0	0	0
	point206	206	364	45	8	45	4	40	0	0	0	0
	point207	207	364	45	8	45	4	40	0	0	0	0
	point208	208	255	45	6	45	3	40	0	0	0	0
	point209	209	255	45	6	45	3	40	0	0	0	0
	point210	210	255	45	6	45	3	40	0	0	0	0
	point435	435	255	40	6	40	3	35	0	0	0	0
	point211	211										
Barton NB Off Ramp	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point222	222	0	0	0	0	0	0	0	0	0	0
	point223	223	0	0	0	0	0	0	0	0	0	0
	point224	224	0	0	0	0	0	0	0	0	0	0
	point225	225	0	0	0	0	0	0	0	0	0	0
	point226	226	0	0	0	0	0	0	0	0	0	0
	point227	227	0	0	0	0	0	0	0	0	0	0
	point228	228	0	0	0	0	0	0	0	0	0	0
	point420	420	0	0	0	0	0	0	0	0	0	0
	point229	229										
Barton EB	point257	257	0	0	0	0	0	0	0	0	0	0
	point256	256	0	0	0	0	0	0	0	0	0	0
	point255	255	0	0	0	0	0	0	0	0	0	0
	point254	254	0	0	0	0	0	0	0	0	0	0
	point253	253	0	0	0	0	0	0	0	0	0	0
	point252	252	0	0	0	0	0	0	0	0	0	0
	point251	251	0	0	0	0	0	0	0	0	0	0
	point250	250	0	0	0	0	0	0	0	0	0	0
	point436	436										
Barton EB	point260	260	0	0	0	0	0	0	0	0	0	0
	point421	421	0	0	0	0	0	0	0	0	0	0
	point259	259	0	0	0	0	0	0	0	0	0	0
	point258	258										
Barton WB	point397	397	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point291	291	0	0	0	0	0	0	0	0	0	0
	point290	290										
Barton WB	point304	304	0	0	0	0	0	0	0	0	0	0
	point432	432	0	0	0	0	0	0	0	0	0	0
	point303	303	0	0	0	0	0	0	0	0	0	0
	point302	302										
Grand Terrace NB	point424	424	0	0	0	0	0	0	0	0	0	0
	point312	312	0	0	0	0	0	0	0	0	0	0
	point311	311	0	0	0	0	0	0	0	0	0	0
	point310	310	0	0	0	0	0	0	0	0	0	0
	point309	309	0	0	0	0	0	0	0	0	0	0
	point308	308	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point307	307	0	0	0	0	0	0	0	0	0	0
	point306	306										
Grand Terrace NB	point399	399	0	0	0	0	0	0	0	0	0	0
	point403	403	0	0	0	0	0	0	0	0	0	0
	point404	404	0	0	0	0	0	0	0	0	0	0
	point319	319	0	0	0	0	0	0	0	0	0	0
	point318	318	0	0	0	0	0	0	0	0	0	0
	point317	317	0	0	0	0	0	0	0	0	0	0
	point316	316	0	0	0	0	0	0	0	0	0	0
	point315	315	0	0	0	0	0	0	0	0	0	0
	point314	314	0	0	0	0	0	0	0	0	0	0
	point313	313										
Grand Terrace SB	point400	400	0	0	0	0	0	0	0	0	0	0
	point406	406	0	0	0	0	0	0	0	0	0	0
	point407	407	0	0	0	0	0	0	0	0	0	0
	point326	326	0	0	0	0	0	0	0	0	0	0
	point325	325	0	0	0	0	0	0	0	0	0	0
	point324	324	0	0	0	0	0	0	0	0	0	0
	point323	323	0	0	0	0	0	0	0	0	0	0
	point322	322	0	0	0	0	0	0	0	0	0	0
	point321	321	0	0	0	0	0	0	0	0	0	0
	point425	425	0	0	0	0	0	0	0	0	0	0
	point320	320										
Grand Terrace SB	point333	333	0	0	0	0	0	0	0	0	0	0
	point332	332	0	0	0	0	0	0	0	0	0	0
	point331	331	0	0	0	0	0	0	0	0	0	0
	point330	330	0	0	0	0	0	0	0	0	0	0
	point329	329	0	0	0	0	0	0	0	0	0	0
	point328	328	0	0	0	0	0	0	0	0	0	0
	point327	327										
Vivienda Ct EB	point334	334	0	0	0	0	0	0	0	0	0	0
	point335	335	0	0	0	0	0	0	0	0	0	0
	point336	336	0	0	0	0	0	0	0	0	0	0
	point337	337										
Vivienda Ct EB	point402	402	0	0	0	0	0	0	0	0	0	0
	point410	410	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point411	411	0	0	0	0	0	0	0	0	0	0
	point338	338	0	0	0	0	0	0	0	0	0	0
	point339	339	0	0	0	0	0	0	0	0	0	0
	point340	340	0	0	0	0	0	0	0	0	0	0
	point341	341										
Vivienda Ct EB	point342	342	0	0	0	0	0	0	0	0	0	0
	point343	343	0	0	0	0	0	0	0	0	0	0
	point419	419	0	0	0	0	0	0	0	0	0	0
	point344	344										
Vivienda NB	point415	415	0	0	0	0	0	0	0	0	0	0
	point353	353	0	0	0	0	0	0	0	0	0	0
	point352	352	0	0	0	0	0	0	0	0	0	0
	point351	351	0	0	0	0	0	0	0	0	0	0
	point350	350	0	0	0	0	0	0	0	0	0	0
	point349	349	0	0	0	0	0	0	0	0	0	0
	point348	348	0	0	0	0	0	0	0	0	0	0
	point347	347	0	0	0	0	0	0	0	0	0	0
	point346	346	0	0	0	0	0	0	0	0	0	0
	point345	345										
Vivienda SB	point362	362	0	0	0	0	0	0	0	0	0	0
	point361	361	0	0	0	0	0	0	0	0	0	0
	point360	360	0	0	0	0	0	0	0	0	0	0
	point359	359	0	0	0	0	0	0	0	0	0	0
	point358	358	0	0	0	0	0	0	0	0	0	0
	point357	357	0	0	0	0	0	0	0	0	0	0
	point416	416	0	0	0	0	0	0	0	0	0	0
	point417	417	0	0	0	0	0	0	0	0	0	0
	point356	356	0	0	0	0	0	0	0	0	0	0
	point355	355	0	0	0	0	0	0	0	0	0	0
	point414	414	0	0	0	0	0	0	0	0	0	0
	point354	354										
Michigan NB	point426	426	0	0	0	0	0	0	0	0	0	0
	point363	363	0	0	0	0	0	0	0	0	0	0
	point364	364	0	0	0	0	0	0	0	0	0	0
	point365	365	0	0	0	0	0	0	0	0	0	0
	point366	366	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point367	367	0	0	0	0	0	0	0	0	0	0
	point368	368	0	0	0	0	0	0	0	0	0	0
	point430	430	0	0	0	0	0	0	0	0	0	0
	point369	369										
Michigan NB	point370	370	0	0	0	0	0	0	0	0	0	0
	point371	371	0	0	0	0	0	0	0	0	0	0
	point372	372	0	0	0	0	0	0	0	0	0	0
	point373	373										
Michigan SB	point431	431	0	0	0	0	0	0	0	0	0	0
	point374	374	0	0	0	0	0	0	0	0	0	0
	point375	375	0	0	0	0	0	0	0	0	0	0
	point376	376	0	0	0	0	0	0	0	0	0	0
	point377	377	0	0	0	0	0	0	0	0	0	0
	point378	378	0	0	0	0	0	0	0	0	0	0
	point379	379	0	0	0	0	0	0	0	0	0	0
	point380	380										
Michigan SB	point427	427	0	0	0	0	0	0	0	0	0	0
	point384	384	0	0	0	0	0	0	0	0	0	0
	point383	383	0	0	0	0	0	0	0	0	0	0
	point382	382	0	0	0	0	0	0	0	0	0	0
	point381	381										
Vivienda Ct WB Ln	point401	401	0	0	0	0	0	0	0	0	0	0
	point408	408	0	0	0	0	0	0	0	0	0	0
	point409	409	0	0	0	0	0	0	0	0	0	0
	point385	385	0	0	0	0	0	0	0	0	0	0
	point386	386	0	0	0	0	0	0	0	0	0	0
	point387	387	0	0	0	0	0	0	0	0	0	0
	point388	388										
Vivienda Ct WB	point389	389	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point392	392										
Vivienda Ct WB	point418	418	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point395	395										

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

Newport Avenue EB	point440	440	52	40	0	0	0	0	0	0	0	0
	point457	457	52	40	0	0	0	0	0	0	0	0
	point458	458	52	40	0	0	0	0	0	0	0	0
	point459	459	52	40	0	0	0	0	0	0	0	0
	point441	441	52	40	0	0	0	0	0	0	0	0
	point442	442										
Barton EB	point444	444	0	0	0	0	0	0	0	0	0	0
	point249	249	0	0	0	0	0	0	0	0	0	0
	point248	248	0	0	0	0	0	0	0	0	0	0
	point247	247										
Barton WB	point445	445	0	0	0	0	0	0	0	0	0	0
	point434	434	0	0	0	0	0	0	0	0	0	0
	point301	301	0	0	0	0	0	0	0	0	0	0
	point300	300	0	0	0	0	0	0	0	0	0	0
	point422	422	0	0	0	0	0	0	0	0	0	0
	point423	423	0	0	0	0	0	0	0	0	0	0
	point299	299	0	0	0	0	0	0	0	0	0	0
	point298	298	0	0	0	0	0	0	0	0	0	0
	point297	297	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point294	294										
Barton EB	point398	398	0	0	0	0	0	0	0	0	0	0
	point428	428	0	0	0	0	0	0	0	0	0	0
	point429	429	0	0	0	0	0	0	0	0	0	0
	point268	268	0	0	0	0	0	0	0	0	0	0
	point267	267	0	0	0	0	0	0	0	0	0	0
	point266	266	0	0	0	0	0	0	0	0	0	0
	point265	265	0	0	0	0	0	0	0	0	0	0
	point264	264	0	0	0	0	0	0	0	0	0	0
	point263	263	0	0	0	0	0	0	0	0	0	0
	point262	262	0	0	0	0	0	0	0	0	0	0
	point439	439	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point270	270	0	0	0	0	0	0	0	0	0	0
	point269	269										
Barton WB	point280	280	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point438	438	0	0	0	0	0	0	0	0	0	0
	point289	289	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point286	286	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point412	412	0	0	0	0	0	0	0	0	0	0
	point413	413	0	0	0	0	0	0	0	0	0	0
	point283	283	0	0	0	0	0	0	0	0	0	0
	point282	282										
Newport Avenue WB	point466	466	32	40	0	0	0	0	0	0	0	0
	point465	465	32	40	0	0	0	0	0	0	0	0
	point464	464	32	40	0	0	0	0	0	0	0	0
	point463	463	32	40	0	0	0	0	0	0	0	0
	point462	462	32	40	0	0	0	0	0	0	0	0
	point461	461										
Barton Median	point485	485	0	0	0	0	0	0	0	0	0	0
	point484	484	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point478	478	0	0	0	0	0	0	0	0	0	0
	point477	477	0	0	0	0	0	0	0	0	0	0
	point476	476	0	0	0	0	0	0	0	0	0	0
	point475	475	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

	point472	472	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point469	469	0	0	0	0	0	0	0	0	0	0
	point468	468	0	0	0	0	0	0	0	0	0	0
	point467	467										
Barton SB On Ramp	point437	437	0	0	0	0	0	0	0	0	0	0
	point172	172	0	0	0	0	0	0	0	0	0	0
	point171	171	0	0	0	0	0	0	0	0	0	0
	point170	170	0	0	0	0	0	0	0	0	0	0
	point169	169	0	0	0	0	0	0	0	0	0	0
	point168	168	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point165	165	0	0	0	0	0	0	0	0	0	0
	point164	164	0	0	0	0	0	0	0	0	0	0
	point163	163	0	0	0	0	0	0	0	0	0	0
	point162	162	0	0	0	0	0	0	0	0	0	0
	point161	161	0	0	0	0	0	0	0	0	0	0
	point160	160	0	0	0	0	0	0	0	0	0	0
	point446	446	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point126	505	0	0	0	0	0	0	0	0	0	0
	point125	506	0	0	0	0	0	0	0	0	0	0
	point124	507	0	0	0	0	0	0	0	0	0	0
	point123	508	0	0	0	0	0	0	0	0	0	0
	point122	509	0	0	0	0	0	0	0	0	0	0
	point121	510	0	0	0	0	0	0	0	0	0	0
	point120	511										
Barton NB On Ramp	point433	433	300	69	8	58	0	0	0	0	0	0
	point239	239	300	69	8	58	0	0	0	0	0	0
	point238	238	300	69	8	58	0	0	0	0	0	0
	point237	237	300	69	8	58	0	0	0	0	0	0

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	point236	236	300	69	8	58	0	0	0	0	0	0
	point235	235	300	69	8	58	0	0	0	0	0	0
	point234	234	300	69	8	58	0	0	0	0	0	0
	point233	233	300	69	8	58	0	0	0	0	0	0
	point232	232	300	69	8	58	0	0	0	0	0	0
	point231	231	300	69	8	58	0	0	0	0	0	0
	point450	450	300	69	8	58	0	0	0	0	0	0
	point451	451	300	69	8	58	0	0	0	0	0	0
	point452	452	300	69	8	58	0	0	0	0	0	0
	point453	453	300	69	8	58	0	0	0	0	0	0
	point454	454	300	69	8	58	0	0	0	0	0	0
	point456	456	300	69	8	58	0	0	0	0	0	0
	point7	522	300	69	8	58	0	0	0	0	0	0
	point6	523	300	69	8	58	0	0	0	0	0	0
	point5	524	300	69	8	58	0	0	0	0	0	0
	point4	525	300	69	8	58	0	0	0	0	0	0
	point3	526	300	69	8	58	0	0	0	0	0	0
	point2	527	300	69	8	58	0	0	0	0	0	0
	point1	528										
La Crosse SB	point535	535	0	0	0	0	0	0	0	0	0	0
	point536	536	0	0	0	0	0	0	0	0	0	0
	point537	537	0	0	0	0	0	0	0	0	0	0
	point538	538	0	0	0	0	0	0	0	0	0	0
	point539	539	0	0	0	0	0	0	0	0	0	0
	point540	540										
La Crosse Avenue (northern)	point551	551	109	45	6	45	3	40	0	0	0	0
	point547	547	109	45	6	45	3	40	0	0	0	0
	point548	548	109	45	6	45	3	40	0	0	0	0
	point549	549	109	45	6	45	3	40	0	0	0	0
	point550	550										
I-215 NB Lanes 1 & 2	point38	38	2816	69	88	58	107	52	0	0	0	0
	point37	37	2816	69	88	58	107	52	0	0	0	0
	point36	36	2816	69	88	58	107	52	0	0	0	0
	point35	35	2816	69	88	58	107	52	0	0	0	0
	point34	34	2816	69	88	58	107	52	0	0	0	0
	point33	33	2816	69	88	58	107	52	0	0	0	0

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	point32	32	2816	69	88	58	107	52	0	0	0	0
	point31	31	2816	69	88	58	107	52	0	0	0	0
	point30	30	2816	69	88	58	107	52	0	0	0	0
	point29	29	2816	69	88	58	107	52	0	0	0	0
	point28	28	2816	69	88	58	107	52	0	0	0	0
	point27	27	2816	69	88	58	107	52	0	0	0	0
	point26	26	2816	69	88	58	107	52	0	0	0	0
	point25	25	2816	69	88	58	107	52	0	0	0	0
	point534	534	2816	69	88	58	107	52	0	0	0	0
	point23	23	2816	69	88	58	107	52	0	0	0	0
	point22	22	2816	69	88	58	107	52	0	0	0	0
	point21	21	2816	69	88	58	107	52	0	0	0	0
	point533	533	2816	69	88	58	107	52	0	0	0	0
	point20	20	2816	69	88	58	107	52	0	0	0	0
	point19	19	2816	69	88	58	107	52	0	0	0	0
	point18	18	2816	69	88	58	107	52	0	0	0	0
	point17	17	2816	69	88	58	107	52	0	0	0	0
	point16	16	2816	69	88	58	107	52	0	0	0	0
	point15	15	2816	69	88	58	107	52	0	0	0	0
	point14	14	2816	69	88	58	107	52	0	0	0	0
	point13	13	2816	69	88	58	107	52	0	0	0	0
	point12	12	2816	69	88	58	107	52	0	0	0	0
	point11	11	2816	69	88	58	107	52	0	0	0	0
	point10	10	2816	69	88	58	107	52	0	0	0	0
	point9	9	2816	69	88	58	107	52	0	0	0	0
	point8	8	2816	69	88	58	107	52	0	0	0	0
	point7	7	2816	69	88	58	107	52	0	0	0	0
	point6	6	2816	69	88	58	107	52	0	0	0	0
	point5	5	2816	69	88	58	107	52	0	0	0	0
	point4	4	2816	69	88	58	107	52	0	0	0	0
	point3	3	2816	69	88	58	107	52	1	0	0	0
	point2	2	2816	69	88	58	107	52	0	0	0	0
	point1	1										
I-215 SB Lanes 1 & 2	point157	157	3021	69	131	58	131	52	0	0	0	0
	point156	156	3021	69	131	58	131	52	0	0	0	0
	point155	155	3021	69	131	58	131	52	0	0	0	0

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	point154	154	3021	69	131	58	131	52	0	0	0	0
	point153	153	3021	69	131	58	131	52	0	0	0	0
	point152	152	3021	69	131	58	131	52	0	0	0	0
	point151	151	3021	69	131	58	131	52	0	0	0	0
	point150	150	3021	69	131	58	131	52	0	0	0	0
	point149	149	3021	69	131	58	131	52	0	0	0	0
	point148	148	3021	69	131	58	131	52	0	0	0	0
	point147	147	3021	69	131	58	131	52	0	0	0	0
	point146	146	3021	69	131	58	131	52	0	0	0	0
	point145	145	3021	69	131	58	131	52	0	0	0	0
	point144	144	3021	69	131	58	131	52	0	0	0	0
	point532	532	3021	69	131	58	131	52	0	0	0	0
	point142	142	3021	69	131	58	131	52	0	0	0	0
	point141	141	3021	69	131	58	131	52	0	0	0	0
	point140	140	3021	69	131	58	131	52	0	0	0	0
	point139	139	3021	69	131	58	131	52	0	0	0	0
	point138	138	3021	69	131	58	131	52	0	0	0	0
	point531	531	3021	69	131	58	131	52	0	0	0	0
	point136	136	3021	69	131	58	131	52	0	0	0	0
	point135	135	3021	69	131	58	131	52	0	0	0	0
	point134	134	3021	69	131	58	131	52	0	0	0	0
	point133	133	3021	69	131	58	131	52	0	0	0	0
	point132	132	3021	69	131	58	131	52	0	0	0	0
	point131	131	3021	69	131	58	131	52	0	0	0	0
	point130	130	3021	69	131	58	131	52	0	0	0	0
	point129	129	3021	69	131	58	131	52	0	0	0	0
	point128	128	3021	69	131	58	131	52	0	0	0	0
	point127	127	3021	69	131	58	131	52	0	0	0	0
	point126	126	3021	69	131	58	131	52	0	0	0	0
	point125	125	3021	69	131	58	131	52	0	0	0	0
	point124	124	3021	69	131	58	131	52	0	0	0	0
	point123	123	3021	69	131	58	131	52	0	0	0	0
	point122	122	3021	69	131	58	131	52	0	0	0	0
	point121	121	3021	69	131	58	131	52	0	0	0	0
	point120	120										
La Crosse NB	point552	552	0	0	0	0	0	0	0	0	0	0

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	point553	553	0	0	0	0	0	0	0	0	0	0
	point554	554	0	0	0	0	0	0	0	0	0	0
	point555	555	0	0	0	0	0	0	0	0	0	0
	point556	556	0	0	0	0	0	0	0	0	0	0
	point557	557										