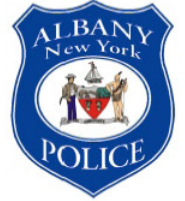
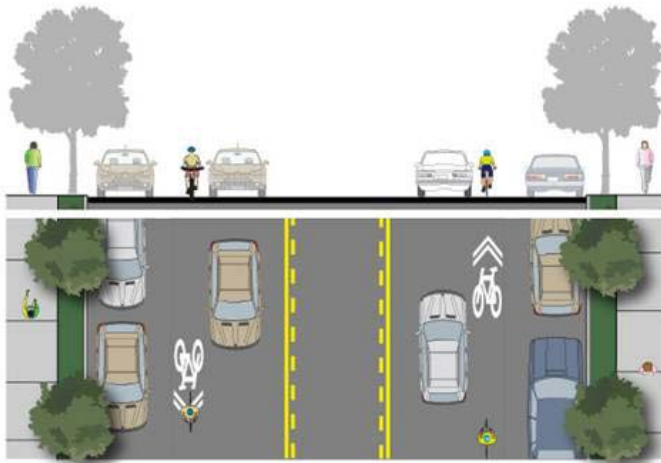


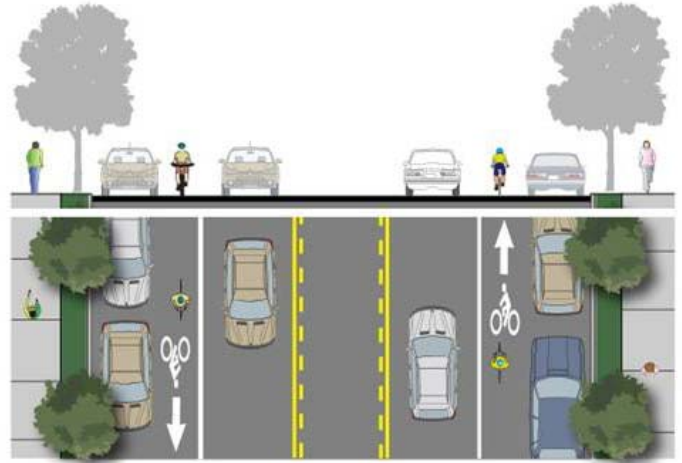
# MADISON AVENUE TRAFFIC STUDY/ ROAD DIET FEASIBILITY STUDY



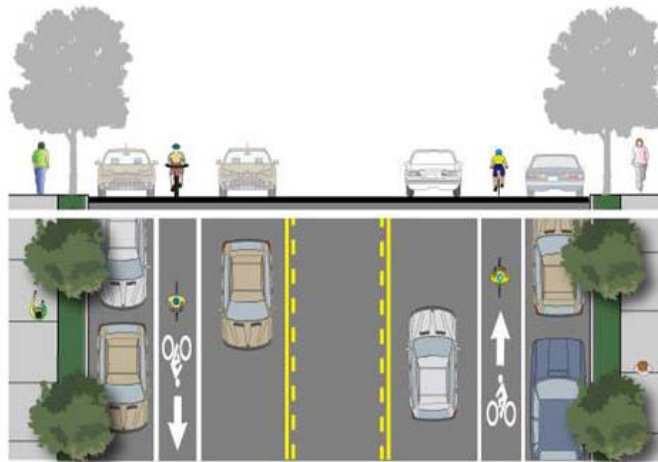
FINAL REPORT:  
JUNE 2013



Option A: Shared Travel Lane



Option B: Shared Parking Lane



Option C: Exclusive Bike Lane

Prepared by:



In association with:

Alta Planning and Design

## Table of Contents

	<u>Page</u>
Table of Contents.....	ii
List of Tables.....	ii
List of Appendices.....	ii
Executive Summary .....	iii
Chapter 1. Introduction .....	1
Chapter 2. Existing Conditions.....	4
A. Corridor Conditions .....	4
1. Pedestrians .....	4
2. Bicycles .....	4
3. Transit .....	5
B. Accident History .....	5
C. Traffic Volumes .....	5
D. Operations.....	6
Chapter 3. Alternatives and Evaluation.....	8
A. Operations.....	8
B. Roadway Layout .....	10
C. Stakeholder and Public Participation .....	13
D. Implementation and Funding.....	14
Chapter 4. Conclusions and Recommendations.....	15

## List of Tables

Table 1.1 – Road Diet Benefits .....	2
Table 2.1 – Existing Overall Level of Service .....	7
Table 3.1 – Measures of Effectiveness Comparison .....	9
Table 3.2 – Overall Level of Service Comparison.....	10

## List of Appendices

Appendix A.....	Existing Conditions Summary
Appendix B.....	Accident Evaluation
Appendix C .....	Traffic Volumes
Appendix D .....	Stakeholder and Public Involvement

## ***Executive Summary***

The City of Albany commenced a study to evaluate the feasibility of implementing a “Road Diet” along Madison Avenue from Lark Street to South Allen Street and along Western Avenue from South Allen Street to Manning Boulevard. A “Road Diet” is when a road is reduced in the number of travel lanes and/or the effective width. The reallocation of space can result in improved safety for cyclists by providing dedicated space on the roadway; for pedestrians by reducing the potential vehicle conflicts; and for vehicles by providing clear delineation and fewer decision points.

The goals of the study are to provide an assessment of the feasibility, benefits, and impacts of a road diet in the corridor by evaluating alternatives that consider bicycles, pedestrians, transit, parking, safety, and passenger vehicle operations. In addition, the alternatives should strive to maintain the existing curb lines, allow sufficient opportunities for turning vehicles, and maintain parking on both sides of Madison Avenue.

There are multiple design options for implementation of a road diet that would accommodate cyclists, motorists, and parked vehicles. However, two alternatives are considered “not feasible” including implementation of a cycle track which would require curb relocation and providing a two-lane roadway which does not provide a lane for turning traffic. Therefore, the study focuses on the following five (5) alternatives to determine feasible road diet alternatives.

- Alternative 1: Existing roadway configuration and planned signal improvements
- Alternative 2: 3-lane roadway through entire corridor without signal coordination
- Alternative 3: 3-lane roadway through entire corridor with signal coordination
- Alternative 4: 3-lane roadway along Madison Avenue without signal coordination
- Alternative 5: 3-lane roadway along Madison Avenue with signal coordination

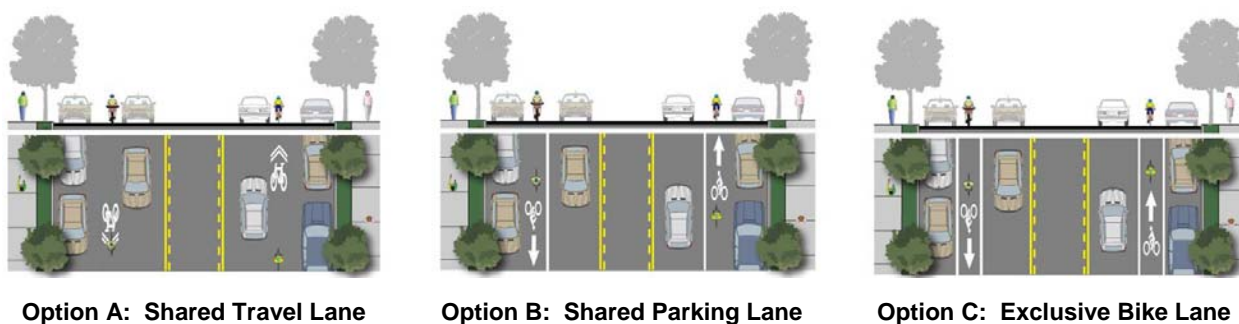
The analysis shows that Implementation of a Road Diet just along the Madison Avenue portion of the corridor with no signal coordination (Alternative 4) may be feasible, however, increased vehicle delays will be apparent. Including signal coordination in the project (Alternative 5) minimizes adverse impacts and brings vehicle delays closer to existing conditions. Alternative 5 is considered feasible. Alternatives 2 and 3 (road diet extending onto Western Avenue) are not feasible due to the sheer traffic volume and delays that would result from a road diet in this section.

There are three general roadway layout options for a road diet on Madison Avenue:

- Option A: Shared Travel Lane for bicycles and vehicles.
- Option B: Shared Parking Lane in which there is a wide parking lane for bicycles and parked vehicles.
- Option C: Exclusive Bike Lane in which vehicles, bicycles, and parked vehicles each have delineated space.

The following images illustrate how the three roadway layout options could look on Madison Avenue. Although all three of these options appear feasible, Options B and C would require some concession on desirable lane widths (center turn lane should be 11 feet wide and the parking lanes should be 8 feet wide).

None of the three options meet all of the stakeholder goals, but are deemed to provide adequate bicycle accommodation on this roadway. Option A is consistent with recent pavement marking projects throughout the City with the use of Sharrows to indicate that cyclists share the travel lane with motorized vehicles. Option B shifts the bicycle accommodation into a shared parking lane, separating the bicycles from the travel lane but placing them against parked vehicles. Option C provides for exclusive delineated bicycle lanes but again places bicyclists against parked vehicles.



In conclusion, it appears that a Road Diet is feasible for Madison Avenue with the following potential trade-offs:

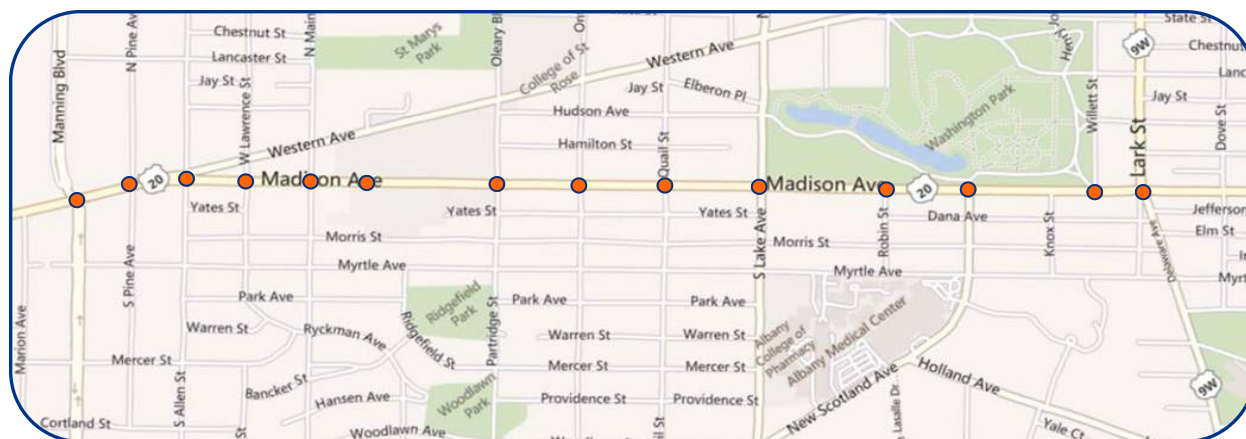
Potential Advantages	Potential Disadvantages
Space for bicycles	Increased vehicular delay, notably side street approaches
Traffic calming / reduced travel speeds.	More difficulty turning in and out of driveways
Less traffic noise	Increased transit travel times
Crash reduction	Greater interference of double parked vehicles

In order to implement Alternative 5 on Madison Avenue, pavement marking modifications as well as traffic signal improvements to incorporate vehicle detection and coordination equipment will be required.

## Chapter 1. Introduction

The City of Albany has commenced a study to evaluate the feasibility of implementing a “Road Diet” along Madison Avenue from Lark Street to South Allen Street and along Western Avenue from South Allen Street to Manning Boulevard. A “Road Diet” is when a road is reduced in the number of travel lanes and/or the effective width. The goals of the study are to provide an assessment of the feasibility, benefits, and impacts of a road diet in the corridor by evaluating alternatives that consider bicycles, pedestrians, transit, parking, safety, and passenger vehicle operations. The study area is illustrated on the map below and includes the following signalized intersections (listed from west to east):

- Western Ave/Manning Blvd
- Western Ave/North-South Pine Ave
- Western Ave/North-South Allen St
- Madison Ave/West Lawrence St
- Madison Ave/North-South Main Ave
- Madison Ave/St. Rose pedestrian signal
- Madison Ave/Partridge St
- Madison Ave/Ontario St
- Madison Ave/Quail St
- Madison Ave/North-South Lake Ave
- Madison Ave/Robin St
- Madison Ave/New Scotland Ave
- Madison Ave/Willett St
- Madison Ave/Lark St



The City of Albany completed a Bicycle Master Plan in December 2009 with the stated purpose to “identify a network of bicycle routes to improve cycling as a viable mode of transportation throughout the City<sup>1</sup>.” The plan identifies Madison Avenue as a “Major Bikeway” intended for adult riders that can use the road for direct route commuting purposes. However, with its current configuration of two travel lanes in each direction, the existing roadway geometry cannot function as a major bikeway in the City.

The U.S. Department of Transportation Federal Highway Administration (FHWA) provides information about Road Diets, and notes that typical road diets involve the reallocation of four travel lanes (two in each direction) to one travel lane in each direction with a center two-way left-turn lane as shown in the following pictures from the FHWA website.

<sup>1</sup> City of Albany, Planning Department, [City of Albany Bicycle Master Plan](#) (Albany: Planning Department, 2009)



The reallocation of space can result in improved safety for cyclists by providing them dedicated space on the roadway; for pedestrians by reducing the potential vehicle conflicts; and for vehicles by providing clear delineation and fewer decision points. Within the study corridor, there are a number of potential benefits associated with the potential implementation of a road diet. Table 1.1 identifies the benefits as listed in the *Guide for the Development of Bicycle Facilities 2012, fourth edition* as published by the American Association of State Highway and Transportation Officials.

**Table 1.1 – Road Diet Benefits**

<b>AASHTO Bicycle Facility Road Diet Benefits</b>
The additional space gained by removing one lane can be used to provide bike lanes or shoulders on both sides of the road.
With one travel lane in each direction, top-end travel speeds are moderated by those who are following posted speed limits, which may reduce potential crash severities for all users.
It may be feasible to include a raised median or small refuge islands at some pedestrian crossing locations, making it easier for pedestrians to cross the street and reducing the likelihood of pedestrian crashes.
The reduction from two lanes to one in each direction virtually eliminates the likelihood of “multiple threat” crashes (where a driver in one lane stops to yield, but the driver in the adjacent lane continues at speed) for pedestrians and left-turning motorists and bicyclists.
Left-turn lanes provide a place for motorists and bicyclists to wait to make a left turn, reducing the incidence of left-turn and rear-end crashes.
Sideswipe crashes are reduced since motorists no longer need to change lanes to pass a vehicle waiting to turn left from the leftmost through lane.
Less traffic noise (due to reduced speeds) and greater separation from traffic for pedestrians, residents, and businesses.

The AASHTO guide does not list disadvantages, however there are several perceived or anecdotal concerns as listed below:

- All through traffic in a single lane will increase vehicle delays.
- All traffic shifted to a single lane results in more vehicles adjacent to on-road cyclists.
- All through traffic in a single lane results in difficulty for vehicles turning to and from side streets and driveways.
- All through traffic in a single lane can result in increased transit times.
- All through traffic in a single lane means that any vehicles double parking will block the single travel lane.

The previous discussion shows that there are a number of trade-offs associated with the implementation of a road diet. For example, placing all vehicle traffic in a single lane may provide a traffic calming effect but could increase delays for traffic turning onto Western or Madison Avenues due to fewer gaps in the single stream of traffic. All potential benefits and concerns should be weighed in assessing the feasibility and practicality of a road diet.

In addition to the above concerns, several criteria have been identified as success factors for feasibility of the road diet. These include:

- Maintaining the existing curb lines. This means that feasible alternatives must fit within the existing roadway width.
- Allowing sufficient opportunities for turning vehicles to enter and exit mainline traffic without unduly interrupting mainline flow. Generally speaking, this criterion dictates the necessity for queuing space for turning vehicles that will not interrupt mainline flow.
- Maintaining parking on both sides of Madison Avenue. This criterion limits the space available to accommodate moving traffic (passenger vehicles, bicycles, and buses).
- Striving to provide standard lane widths.

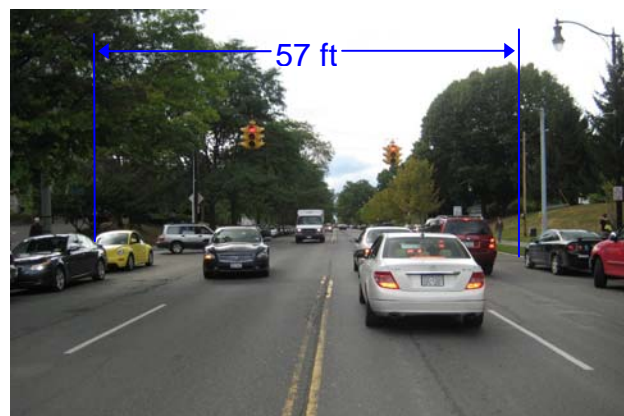


## Chapter 2. Existing Conditions

An Existing Conditions assessment was completed which is contained in Appendix A. The assessment includes existing pedestrian, bicycle, and transit conditions along the corridor. The evaluation found that while the corridor has many good features for pedestrians and transit users, the lack of bicycle accommodations is apparent. The existing conditions assessment is summarized below.

### A. Corridor Conditions

The study area can generally be broken into two segments: the Western Avenue segment which is 0.2 miles long and the Madison Avenue segment which is 1.6 miles long. Western Avenue generally provides a 42-foot wide roadway with two 10.5 foot travel lanes in each direction. Madison Avenue provides a 57-foot wide roadway with 7 to 8 foot parking lanes on each side of the road and two travel lanes in each direction ranging in width from 10 to 11.5 feet wide. Land uses along the corridor are a mix of residential, educational, and commercial and the posted speed limit is 30-mph.



Madison Avenue near Robin Street

#### 1. Pedestrians

Pedestrians are accommodated through sidewalks located on both sides of the road that are generally 5 feet or wider. Marked crosswalks are generally present at the study intersections, although some of the crosswalk markings are faded. A few of the intersections have full Americans with Disabilities Act (ADA) compliant pedestrian accommodations such as curb ramps, detectable warning fields, and pedestrian signals with countdown timers.



#### 2. Bicycles

There are no bicycle accommodations on Western or Madison Avenues. Narrow lane widths and the presence of occupied on-street parking result in bicyclists sharing the general travel lane with vehicles. Review of the existing conditions along the study corridor identified cyclists of all ages and abilities using Western and Madison Avenues. Several different types of bicycle racks are available along the corridor, providing space for two bicycles each.





### **3. Transit**

Capital District Transportation Authority (CDTA) neighborhood bus routes 63 and 114 serve the study corridor with transfers available to other neighborhood and commuter routes at Allen Street, Main Street, Quail Street, New Scotland Avenue, and Lark Street. Bus stops are located all along Western and Madison Avenues including several new bus stops with bus shelters, signs, bicycle racks, and good access between the bus stop and the bus.



### **B. Accident History**

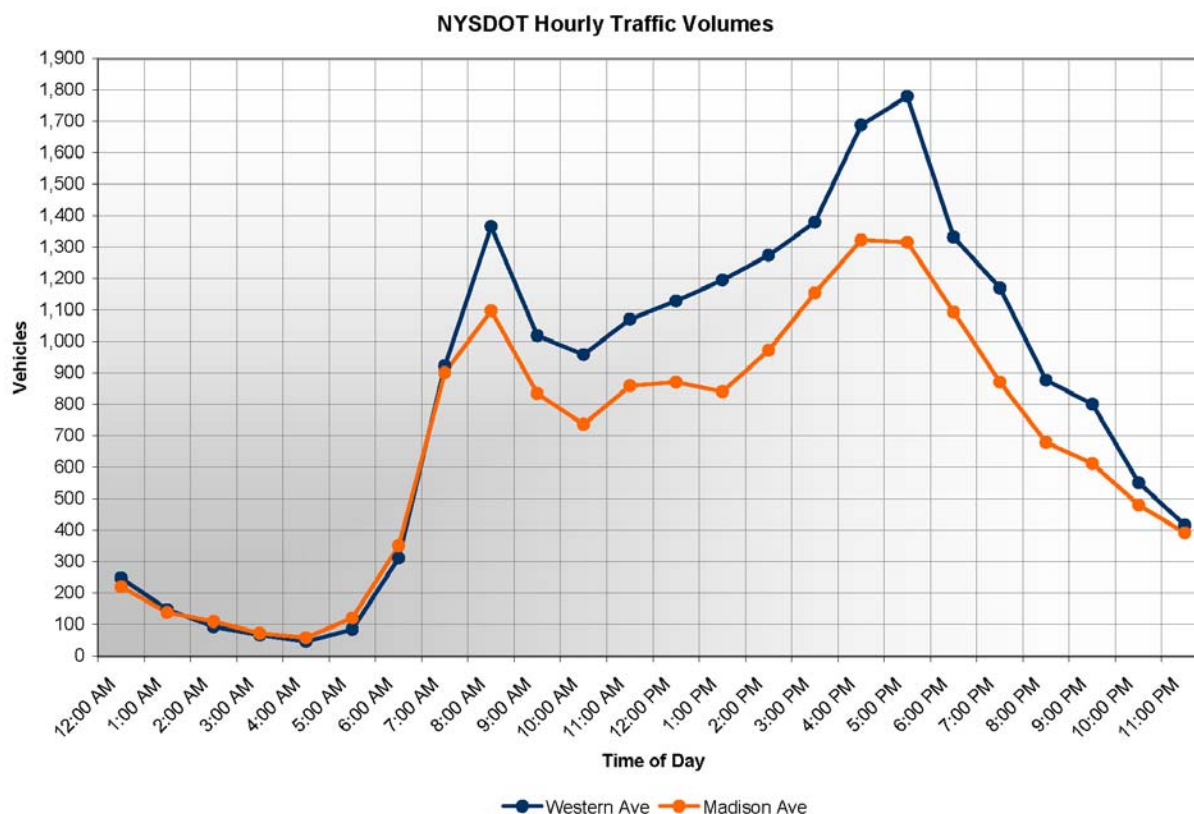
An accident analysis was performed for the study corridor using accident data provided by the City of Albany. The analysis included the review of 481 crashes over a three year period from November 1, 2008 through October 31, 2011. A detailed accident summary sheet and accident history are included in Appendix B. The data shows the following:

- Most of the accidents occurred during clear, dry conditions suggesting that weather conditions and pavement conditions are not the primary contributing factors of the crash history.
- 55% of crashes in the corridor are of a type potentially correctible by a road diet (24% rear end and 31% sideswipe).
- 32 crashes (7%) involved pedestrians or cyclists.
- The primary contributing factors to corridor crashes were driver inattention (27%) and failure to yield right-of-way (18%).
- There were two fatal accidents, accounting for 0.4% of the total crashes during the timeframe of the crash evaluation.
- Property damage crashes accounted for 66.2% of total crashes, injury crashes accounted for 16.4% of total crashes, 15% of the crashes were non-reportables, and the remaining 2.3% were of unknown type.

Road Diets have been identified by FHWA as Proven Safety Countermeasures indicating that the rear end, sideswipe, pedestrian, and cyclist crash trends may be correctible.

### **C. Traffic Volumes**

Information published by the New York State Department of Transportation (NYSDOT) shows that daily traffic volumes along Western Avenue are approximately 18,800 vehicles per day (vpd) and 15,000 vpd on Madison Avenue. The daily traffic variation is shown in the following chart which shows the number of vehicles on each roadway during each hour of a typical weekday.



Intersection turning movement traffic counts were conducted for the project during the spring of 2012 when schools were in session. Data was collected to capture the morning peak from 7:30 to 8:30 a.m., the evening peak from 4:30 to 5:30 p.m. and an off-peak period from 1:30 to 2:30 p.m. Data collection included passenger vehicles, school buses, trucks and other heavy vehicles, pedestrian crossings, and bicycle activity. The existing peak hour turning movement information is contained in Appendix C. The following observations are evident:

- The PM peak hour is the busiest time period.
- Bicycle activity was observed throughout the corridor during the AM, PM, and off-peak periods. During the AM peak hour up to 15 cyclists were observed at each intersection, up to 23 cyclists were observed at each intersection during the PM peak hour, and during the off-peak period up to 11 cyclists were observed at each intersection.
- Pedestrian activity varied throughout the corridor. Though pedestrian crossings were observed at all intersections during all peak conditions, pedestrians appeared most active during the PM peak hour with the largest number of crossings at the Lark Street intersection.

## D. Operations

Capacity analyses were completed using Synchro 8 software to identify existing vehicle operations and levels of service through the study corridor. The analysis was also used to provide a base condition to compare the various alternatives. Table 2.1 summarizes the existing levels of service during the AM, PM and off-peak conditions.

**Table 2.1 – Existing Overall Level of Service**

Intersection		AM Peak Hour	PM Peak Hour	Off-Peak
WE-1	Manning Blvd	C (24.3)	C (24.0)	C (21.3)
WE-2	Pine Ave	A (3.0)	A (5.2)	A (3.6)
WE-3	Allen St	D (36.0)	D (44.1)	D (38.4)
MA-1	West Lawrence St	B (12.6)	B (12.6)	B (10.8)
MA-2	Main Ave	B (17.9)	B (16.1)	B (13.1)
MA-3	St. Rose Dwy	A (3.0)	A (5.2)	A (5.2)
MA-4	Partridge St	B (11.8)	B (13.7)	B (11.1)
MA-5	Ontario St	A (9.3)	A (8.8)	A (8.1)
MA-6	Quail St	B (12.0)	B (12.8)	B (10.5)
MA-7	South Lake Ave	B (16.2)	B (15.2)	B (12.2)
MA-8	Robin St	B (11.9)	B (12.2)	B (10.7)
MA-9	New Scotland Ave	B (13.9)	C (30.2)	B (12.7)
MA-10	Willett St	B (12.0)	B (12.3)	B (11.0)
MA-11	Lark St	E (63.1)	D (41.9)	D (38.5)

X (Y.Y) = Level of Service (Average delay in seconds per vehicle)

The analysis shows that the majority of the study intersections currently operate at very good levels of service (LOS) as shown by the LOS A/B ratings for many of the intersections. LOS C (average delays) prevails at Manning Blvd during all peak periods and at New Scotland Ave during the PM peak period. Only Lark Street and Allen Street operate at LOS D, with Lark Street alone operating at LOS E during the morning peak hour. Overall, acceptable levels of service exist in the corridor during all peak periods.

## Chapter 3. Alternatives and Evaluation

As noted previously, a Road Diet involves the reallocation of pavement to reduce the number of lanes or functional width. Therefore, the proposed alternatives are limited by the space available between the existing curb lines; along Western Avenue there is a 42-foot cross section and along Madison Avenue there is a 57-foot cross section.

There are multiple design options for implementation of a road diet that would accommodate cyclists, motorists, and parked vehicles. However, as noted in Chapter 1 of this report, there are several criteria that should be included in a feasible alternative. The criteria help define the feasible alternatives and include:

- Maintain existing roadway widths (42-feet on Western Avenue, and 57-feet on Madison Avenue)
- Provide a lane for turning traffic
- Maintain parking on both sides of the street (Madison Avenue only)
- Achieve standard lane widths

Based upon these criteria, two alternatives, and any variation of these alternatives, are considered “not feasible”. They include implementation of a cycle track and implementation of a two-lane roadway. Based upon various design criteria, provision of a cycle track will not fit within the available 57-foot roadway width. The two-lane roadway will not provide a lane for turning traffic. Therefore, the next section evaluates variations of a three-lane roadway to determine feasible road diet alternatives.

### A. Operations

Capacity analyses were completed using Synchro 8 software to identify the impacts associated with providing several roadway configuration alternatives:

- Alternative 1: Existing roadway configuration and planned signal improvements
- Alternative 2: 3-lane roadway through entire corridor without signal coordination
- Alternative 3: 3-lane roadway through entire corridor with signal coordination
- Alternative 4: 3-lane roadway along Madison Avenue without signal coordination
- Alternative 5: 3-lane roadway along Madison Avenue with signal coordination

Traffic signal improvements are expected at ten intersections throughout the corridor as part of other projects. Therefore, Alternatives 2 through 5 all include the planned signal improvements. Alternatives 3 and 5 take the signal improvements to the next step by implementing signal upgrades at the four remaining intersections and coordinating the entire corridor to provide good progression for vehicles on Western and Washington Avenues.

Table 3.1 compares the proposed alternatives to the existing conditions for several measures of effectiveness (MOEs) including, travel time, speed, and vehicle emissions.

**Table 3.1 – Measures of Effectiveness Comparison**

Measure of Effectiveness	Full 4-lane Corridor		Full 3-lane Corridor		Partial 3-lane Corridor	
	Existing	With Signal Imps Alt 1	Without Coord. Alt 2	With Coord. Alt 3	Without Coord. Alt 4	With Coord. Alt 5
Stops (#)	15,299	14,991	16,609	14,090	16,635	13,568
Total Delay (hrs)	138	132	369	337	171	146
Travel Time (min)						
Eastbound	6.4	6.1	7.9	7.3	7.0	6.5
Westbound	7.7	7.1	23.0	21.4	9.1	7.2
Fuel Consumed (gal)	309	303	486	448	340	305
CO Emissions (kg)	22	21	34	31	24	21
Average Speed (mph)	13	13	6	7	11	12
Arterial LOS	E	E	F	F	E	E
<b>Performance Index</b>	<b>180</b>	<b>174</b>	<b>416</b>	<b>376</b>	<b>217</b>	<b>184</b>
Bike Benefit	No	No	Yes	Yes	Yes	Yes
Accident Benefit	No	No	Yes*	Yes*	Yes*	Yes*

\* 10 to 65% crash reduction based upon *Road Diet Handbook: Setting Trends for Livable Streets* published by the Institute of Transportation Engineers (ITE) and a study conducted by the Highway Safety Information System (HSIS) in the *Evaluation of Lane Reduction "Road Diet" Measures on Crashes* report.

The Performance Index (PI) is a Synchro function that represents a combination of delay, stops and queuing and is a method for quantifying overall traffic operations. A lower PI number corresponds to better operations. The analysis shows the following:

- Under existing conditions the corridor has a PI of 180.
- Upgrading several of the traffic signals in the corridor as planned through other projects results in a PI of 174. This option (Alternative 1) does not improve conditions for cyclists or reduce accident potential.
- All four road diet alternatives result in improved bicycle accommodations and reduce the potential for accidents.
- Corridor operations would be unacceptable if the Road Diet was implemented along the Western Avenue section (Alternatives 2 and 3). Vehicle delays and the PI would more than double. This is primarily due to the traffic volumes on Western Avenue which are approaching 20,000 vpd. A Road Diet is not feasible along this section of Western Avenue.
- Implementation of a Road Diet just along the Madison Avenue portion of the corridor with no signal coordination (Alternative 4) results in a PI of 217, and may be feasible, however increased vehicle delays will be apparent. There would be a 30 percent increase in vehicle delay (171/132).
- Including signal coordination in the project (Alternative 5) minimizes adverse impacts and brings the PI and vehicle delays closer to existing conditions.
- Alternative 5 is considered feasible – Road Diet limited to Madison Avenue with traffic signals coordinated. Maintain four lanes on Western Avenue.

Table 3.2 compares the existing levels of service in the corridor to levels of service that would be experienced in the corridor with construction of Alternative 5. The analysis shows that with implementation of a Road Diet and signal coordination along Madison Avenue, the overall levels of service will be comparable to existing conditions. Even though levels-of-service will be satisfactory, some increased delay may be apparent on select side streets and driveways.

**Table 3.2 – Overall Level of Service Comparison**

Intersection		Existing	Alt 5
WE-1	Manning Blvd	C (24.0)	C (20.6)
WE-2	Pine Ave	A (5.2)	A (1.9)
WE-3	Allen St	D (44.1)	D (46.1)
MA-1	West Lawrence St	B (12.6)	A (9.6)
MA-2	Main Ave	B (16.1)	C (21.0)
MA-3	St. Rose Dwy	A (5.2)	A (5.0)
MA-4	Partridge St	B (13.7)	B (14.2)
MA-5	Ontario St	A (8.8)	B (10.4)
MA-6	Quail St	B (12.8)	B (15.9)
MA-7	South Lake Ave	B (15.2)	B (17.8)
MA-8	Robin St	B (12.2)	B (12.5)
MA-9	New Scotland Ave	C (30.2)	C (22.6)
MA-10	Willett St	B (12.3)	B (14.9)
MA-11	Lark St	D (41.9)	D (41.9)

X (Y.Y) = Level of Service (Average delay in seconds per vehicle)

## B. Roadway Layout

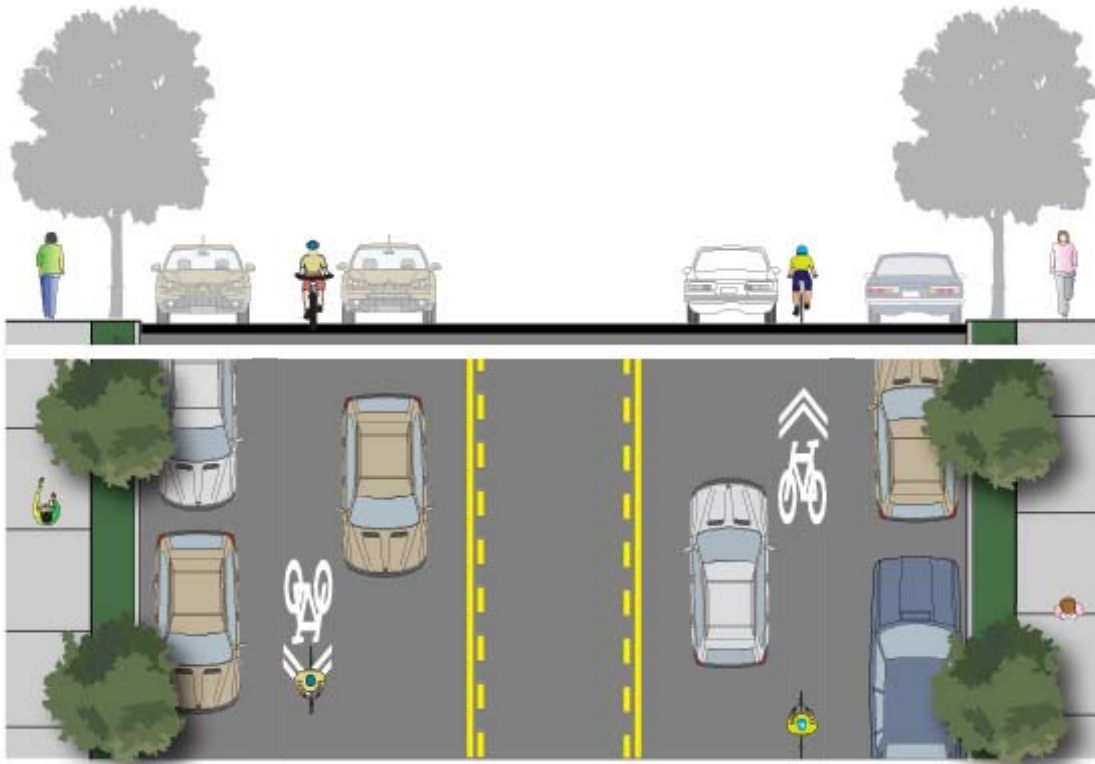
Various resources were reviewed to determine appropriate lane widths and pavement marking configurations to implement a Road Diet, including the “AASHTO Green book”<sup>2</sup>, the AASHTO Guide for the Development of Bicycle Facilities, the Manual on Uniform Traffic Control Devices (MUTCD), and the NYS Vehicle and Traffic Law, among others. Review of these sources has resulted in three general roadway layout options:

- Option A: Shared Travel Lane for bicycles and vehicles.
- Option B: Shared Parking Lane in which there is a wide parking lane for bicycles and parked vehicles.
- Option C: Exclusive Bike Lane in which vehicles, bicycles, and parked vehicles each have delineated space.

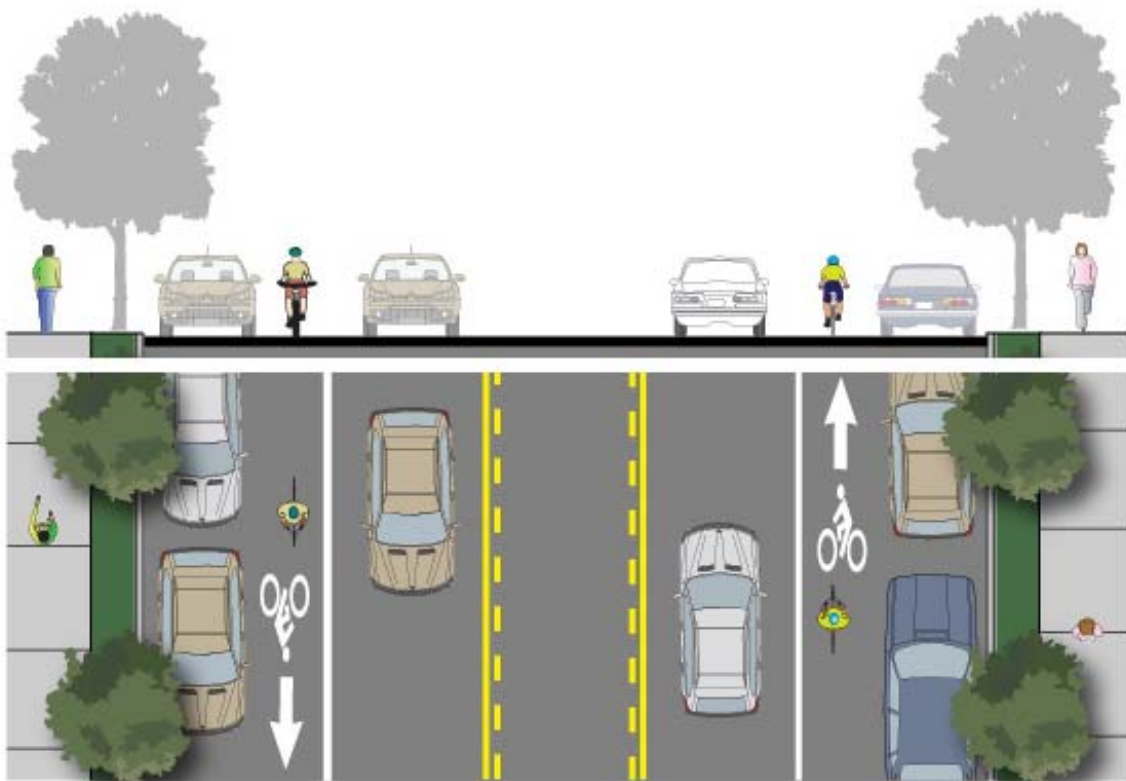
The following three images illustrate how the three roadway layout options could look on Madison Avenue. Although all three of these options appear feasible, Options B and C would require some concession on desirable lane widths (center turn lane should be 11 feet wide and the parking lanes should be 8 feet wide). Exclusive bicycle lanes are preferred by AASHTO when sufficient width exists.

<sup>2</sup> A Policy on Geometric Design, published by the American Association of State Highway and Transportation Officials

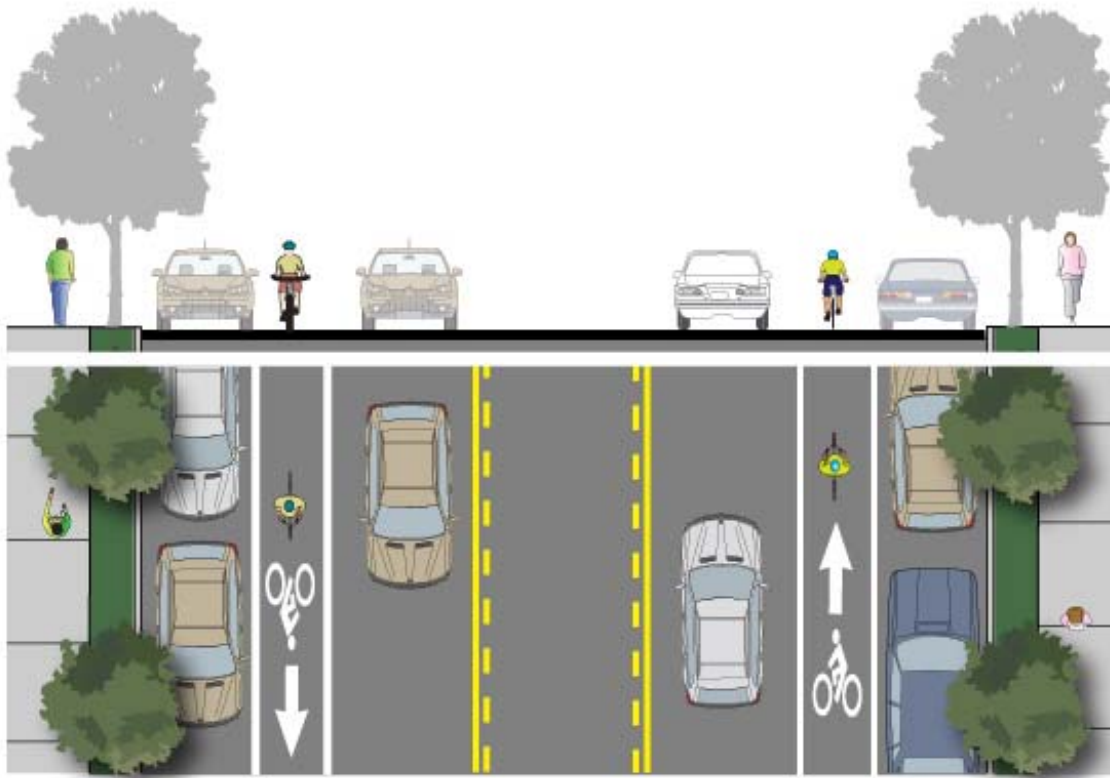




Option A: Shared Travel Lane



Option B: Shared Parking Lane



Option C: Exclusive Bike Lane

Although a Road Diet is not feasible on Western Avenue, sharrow pavement markings could be installed on the section of Western Avenue between Manning Boulevard and Allen Street with any of the Options. The western end of Madison Avenue would need to transition back to match existing conditions before Allen Street. Similarly, the eastern end of Madison Avenue would need to transition back to match existing conditions before Lark Street. The type and location of any new signs will need to be confirmed during the design process.

Although within the City of Albany, delineated bicycle lanes are a relatively new design feature, Clinton Avenue from Ten Broeck Street to Lexington Avenue has delineated bicycle lanes. Between intersections, the 52-foot wide roadway of Clinton Avenue allows 10-foot parking lanes, 4-foot bicycle lanes, and 12-foot travel lanes; there is no center two-way, left-turn lane. At intersections, an 11-foot left-turn lane replaces the delineated bicycle lanes on Clinton Avenue along with 21-foot wide shared parking and travel lanes. These two roadway designs are illustrated in the following image.



Clinton Avenue Bike Lanes and Intersection Turn Lane

### **C. Stakeholder and Public Participation**

Public participation for this feasibility study included two stakeholder meetings and two public meetings (meeting summaries and public comments received are included in Appendix D). The first stakeholder meeting was held on July 11, 2012 to obtain input on the corridor issues and alternatives before starting the detailed feasibility analysis. Comments and questions involved all modes of transportation, safety, and parking.

The second stakeholder meeting was held on February 20, 2013 to present the initial findings of the feasibility analysis. The five alternatives were presented with their associated pros and cons. The three roadway layout options were also presented. The stakeholders supported implementation of a road diet along Madison Avenue, but no definitive roadway layout preference was identified.

Two public meetings for the project were held on April 16, 2013 at 11:00 a.m. and at 6:30 p.m. to reach the widest audience possible. The same material was presented at both meetings. The meetings included a presentation of the project evolution and findings and a question and answer period. Similar to the stakeholder meetings, general support for the road diet (specifically Alternative 5) was identified, but reaction to the roadway layout was mixed.

In addition to the stakeholder and public meetings, written comments were received throughout the study process.

#### **D. Implementation and Funding**

The feasibility study identified Alternative 5 as the feasible alternative with three potential roadway layout options. Detailed engineering design is needed to determine which of the roadway layout options is preferred. In addition to the detailed design, construction funding is needed to implement a road diet along Madison Avenue. Unfortunately in these fiscally constrained times, there are limited funding options available within the current financial scope and significant competition amongst projects for that funding. Some more likely options are summarized below:

- Municipal funding through allocated funds or through a municipal bond. This is the most straight-forward funding source but also the most costly to the City.
- Work with CDTC on a joint project for pavement preservation and traffic signal improvements. The pavement preservation and striping could be funded through CDTC pavement preservation funds while an alternate source of funding is sought for the signal upgrades. This shared funding approach takes advantage of matching federal funds to accomplish the paving and striping work, likely costing the City only 20% and potentially as little as 5% of that eligible work.
- Apply for a Transportation Enhancement Program Award. Solicitations are currently underway for these projects which could be funded using the last of the monies available under SAFETEA-LU. It is envisioned that competition for this limited funding will be high, but this project will have an advantage with significant public outreach already completed. If successful, there is potential for 80% of the entire project to be covered by this funding with only a 20% local share required.
- Apply for funding under the Transportation Alternatives Program which is funded under the most recent transportation bill MAP-21. Applications for these funds will begin during the next calendar year. Although this project could be successful under this option, the lead time for project selection will be long as would the construction funding if successful.

## Chapter 4. Conclusions and Recommendations

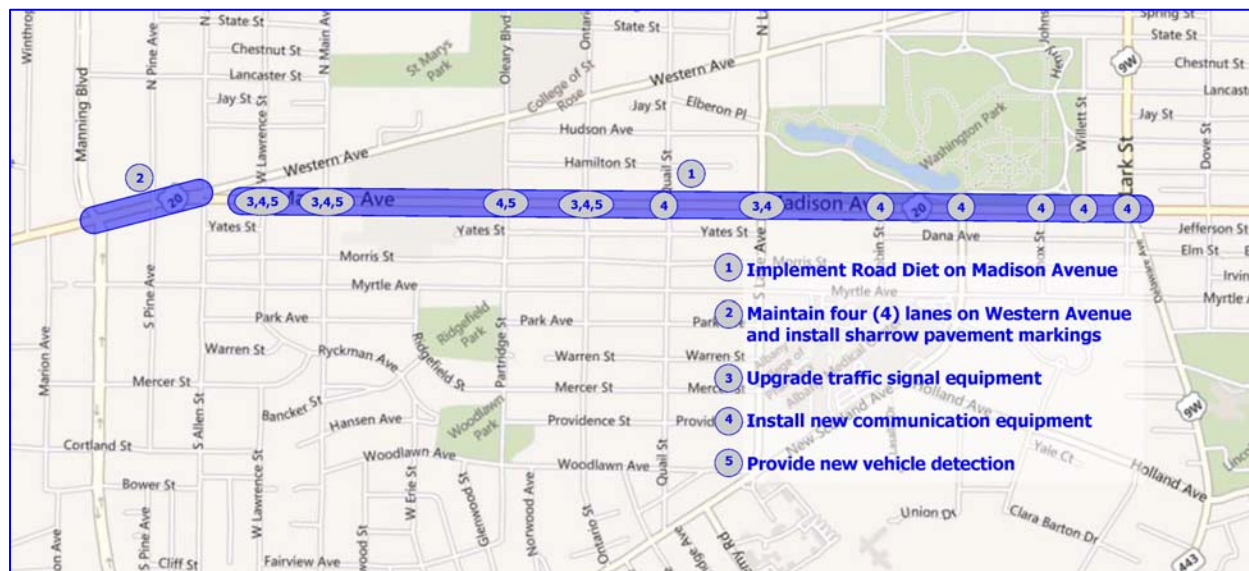
This report summarizes the results of a road diet feasibility study on Western Avenue from Manning Boulevard to Allen Street and on Madison Avenue from Allen Street to Lark Street. A typical road diet involves the reallocation of four travel lanes (two in each direction) to one travel lane in each direction with a center two-way left-turn lane to improve mobility for all users. The study compares the benefits and impacts associated with several alternatives developed.

Based on the evaluation, overall corridor mobility could improve for all users through the implementation of a road diet by providing space for cyclists, reducing pedestrian/vehicle conflicts, and reducing the potential for rear-end and sideswipe crashes. Analyses show that there may be a slight increase in vehicular delay but overall conditions should remain acceptable.

There appear to be three pavement marking Options for the preferred Road Diet alternative (single travel lanes with a shared center turn lane and coordinated traffic signals) which can be coordinated through the design process.

- Alternative 5, Option A: Shared Travel Lane on Madison Avenue with Signal Coordination
- Alternative 5, Option B: Shared Parking Lane on Madison Avenue with Signal Coordination
- Alternative 5, Option C: Exclusive Bike Lane on Madison Avenue with Signal Coordination

The image below identifies the improvements needed within the corridor to implement Alternative 5A, 5B, or 5C.



**Appendix A**

**Existing Conditions Summary**

**Madison Avenue Road Diet Feasibility Study**  
**City of Albany, Albany County, New York**





## Memorandum

To: City of Albany

CC: Creighton Manning Engineering, LLP; Jeff Olson, Alta Planning + Design

From: Lindsay Zefting, PE, Alta Planning + Design

Date: July 6<sup>th</sup>, 2012

Re: Madison Avenue – Existing pedestrian and bicycle conditions

---

### 1 Madison Avenue – Existing Pedestrian and Bicycle Conditions

The study area along Madison Avenue is from Lark Street to South Manning Boulevard. A bicycle and pedestrian audit was performed on June 14<sup>th</sup> between 9am and 12pm. The weather was warm and sunny. Sidewalks are existing on both sides of the street, providing pedestrian access to Washington Park, Albany Medical Center, the College of St Rose, and many local businesses. There no bicycle accommodations along Madison Avenue. Lane widths are already narrow with on – street parking in either direction. Existing pavement space would need to be reallocated to provide on-street bicycle accommodations. There are both pedestrians and cyclists of all ages and abilities currently using the facilities along Madison Avenue. Based on existing conditions, the following are the top ten opportunities and constraints for the corridor.



On-road cyclists on Western Ave



Good pedestrian streetscape at the Madison Theatre

### 1.1 Pavement Markings

Marked crosswalks are present at a majority of crossings throughout the corridor, but most are worn and hardly visible. The intersection of Lark Street and Madison Avenue has solid red stamped crosswalks. All other crosswalks are a standard style crosswalk. There are also no bicycle pavement markings.



Worn crosswalks at Madison Ave and Knox St

### 1.2 Street Trees

Street trees make a significant difference in defining the space along Madison Avenue. Several blocks have nicely spaced street trees with large canopies. Other blocks have some mature trees with other much smaller trees. Still others have no street trees at all.



Variation in street trees along Madison Ave and Washington Park

### 1.3 Bus Stops

There are bus stops all along the Madison Avenue corridor. There are several new bus stops with one shelter, signage, bicycle racks, and good access. There are many others, such as the one on Western Avenue near South Manning Boulevard shown below, that just have signage without pedestrian access or a waiting area.



Typical bus stop along Madison Ave



## 1.4 Signage/Wayfinding

Signage and wayfinding is minimal relative to the abundance of destinations along the corridor. On the east end of the study area, many street signs are missing. The college of St Rose has done well with their destination and wayfinding signage in this portion of Madison Avenue.



Destination signage at Washington Park

## 1.5 Bicycle Parking

There are several bicycle racks along the corridor, accommodating two bicycles each. Most are a variation on a U-rack design but they are all different designs. The design and installation of the bicycle racks should be consistent to create a unified space along Madison Avenue. Even with the bicycle racks present, there are gaps in bicycle parking to key destinations and the single U-rack design offers few bicycle parking spaces in this area.



Bike rack outside El Loco Mexican Cafe

## 1.6 ADA Access

Only a few of the intersections along Madison Avenue have full ADA accessible ramps and pedestrian signals. While most of the intersections and crossings have curb ramps that are ADA compliant, more than half are missing detectable warning strips. The image to the right shows the correct placement of curb ramps and detectable warning strips at the intersections of Lark Street and Madison Avenue.



Colored crosswalks at Lark St and Madison Ave

## 1.7 Pedestrian Lighting

Pedestrian scale lighting is sporadic throughout the corridor while highway cobra head lighting is more common. There are also gaps in the existing lighting. Where pedestrian scale lighting exists, it is typically on the north side of Madison Avenue. Porch lights on the buildings along the south side currently supplement the lack of street lights.



Pedestrian scale lighting between Madison Ave and Washington Park

## 1.8 Sidewalk Quality

Sidewalks exist on both sides of the street for the length of the study area. Sidewalks are generally 5 feet or wider without any steep slopes and are ADA compliant. There are some areas where the sidewalk has either been ripped up and not replaced or is cracked and uneven. These sections will need repairs or replacing but generally the sidewalks are in good condition. Several sections, including in front of St Rose and the theatre, are wider than 5 feet providing even more pedestrian space.



Variations in sidewalk widths along Madison Ave

## 1.9 Driveway Access

In the middle of the corridor, driveway access is minimal and also narrow, reducing pedestrian and vehicle conflicts. On both the east and west ends of the corridor, commercial driveways are frequent and are much wider than needed. Access management techniques should be implemented to eliminate duplicate driveways and to narrow access points to provide safer pedestrian crossings.



Mobil Station at Lark St and Madison Ave with wide driveways

## 1.10 Complex Intersections

There are some wider intersections in the corridor that create a long crossing distance for pedestrians. There are three complex intersections at either end of the corridor; Lark Street and Madison Avenue; Willett Street and Madison Avenue; Western Avenue and Madison Avenue, in Pine Hills. Crosswalks and pedestrian signals are present. Additional improvements can be made to reduce pedestrian exposure time and clarify movements for bicyclists and vehicles.



Complex intersection at Madison Ave and Western Ave



## Complete Street Checklist

Street Name: <b>Madison Avenue</b>	
Project Length: <b>1.8 Miles</b>	Roadway classification: <b>14- Urban Principal Arterial</b>
Number of Intersections: <b>13</b>	Ave. distance between intersections: <b>730 feet</b>

### Motor Vehicles

AADT: 13400 – 14900 vpd	Truck Traffic: 6%	Speed Limit: 30 mph
Lanes per direction: 2	Lane width: 10	Turning Lanes: No    Median: None
On street parking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Both sides: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Restrictions: One day restrictions on either side		

### Pedestrians

Volume: approx. 900 per peak hour			
Sidewalks: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Both sides: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ave. width: 5' or greater	
Condition: <input type="checkbox"/> good <input checked="" type="checkbox"/> fair <input type="checkbox"/> poor			
Utility Strip: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Type: Grass/pavement	Width: ~5'	
Street trees: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Spacing: Varies		
Lighting: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pedestrian scale: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Spacing: Varies	
Crosswalks: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Type: <input checked="" type="checkbox"/> standard <input type="checkbox"/> solid <input type="checkbox"/> continental <input type="checkbox"/> zebra	<input type="checkbox"/> other:	
Condition: <input type="checkbox"/> good <input type="checkbox"/> fair <input checked="" type="checkbox"/> poor			
Curb ramps: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Detectable warning strips: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Pedestrian Master Plan recommendations: N/A			

### Bicyclists

Volume: approx. 50 per peak hour	
Bike Route: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Route #: NYS 5
Bicycle accommodation: <input type="checkbox"/> signage <input type="checkbox"/> sharrows <input type="checkbox"/> shoulders <input type="checkbox"/> bike lane <input type="checkbox"/> other:	
Intersection bicycle treatments: none	
Bicycle parking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Spacing: varies	Type: varies, mostly U-rack    Total Number of Spaces: ~25
Bicycle Master Plan recommendations: major bikeway	



## Transit

Transit service: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Type: <input checked="" type="checkbox"/> bus <input type="checkbox"/> BRT <input type="checkbox"/> light rail <input type="checkbox"/> subway <input type="checkbox"/> other
Frequency: every 35 minutes
Bicycle accommodations: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Transit stops: 6 stops
Amenities: <input checked="" type="checkbox"/> signs <input type="checkbox"/> benches <input checked="" type="checkbox"/> shelters <input type="checkbox"/> bike racks <input type="checkbox"/> ADA accessibility <input type="checkbox"/> other: Mostly signs, some shelters

## Generators

School zone: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other large generators: Empire State Plaza / Albany Medical Center / College of St. Rose / Washington Park

**Appendix B**

**Accident Evaluation**

**Madison Avenue Road Diet Feasibility Study**  
**City of Albany, Albany County, New York**



TE 213 (Equivalent)			DETAILS OF ACCIDENT HISTORY FOR LOCATION															
Diagram No.:					DETAILS OF ACCIDENT HISTORY FOR LOCATION													
County:	Albany		PIN:		Route No. or Street Name:													
Town:					Madison Avenue/Western Avenue													
City:	Albany				At Intersection with/ or Between:													
Village of:					between Manning Boulevard and Delaware Avenue													
Time Period																		
From:		11/01/08	No. of Veh.	Severity (NR, PDO, INJ, FAT)	Light Conditions	Roadway Character	Roadway Surface Condition	Weather	Apparent Contributing Factors				Type	Direction				
To:		10/31/11							19	20	21	22		V1	V2	V3	V4	
No. of Months:		36																
ID No.	Date	Time																Location
187	11/2/2008	9:05	2	PDO	1	1	1	2	4				RE	3	3			13
188	11/6/2008	10:49	2	PDO	1	1	1	2	64				RE	1	1			13
24	11/7/2008	14:53	2	U	1	1	1	2	4				RE	1	1			5
514	11/8/2008	10:17	2	PDO	1	1	1	1	4				SS	3	3			4
207	11/12/2008	6:52	2	INJ/PDO	1	1	1	1	4				LT	5	8			14
37	11/13/2008	14:05	2	NR	1	1	2	3	3				SS	7	3			4A
446	11/15/2008	8:46	2	PDO	1	1	2	3	69				RA	5	7			6A
208	11/16/2008	7:31	2	PDO or NR	1	1	1	1	4	4			RE	5	5			14
348	11/17/2008	18:08	2	PDO	4	1	1	1	5		64		LT	7	5			6A
510	11/18/2008	7:46	3	PDO	1	1	1	1	62				RE	3	3	3		3A
433	11/22/2008	1:04	2	PDO or NR	4	1	1	1	3				RE	3	7			7A
5	11/23/2008	2:30	2	PDO	4	1	1	1	18				LT	7	7			5A
19	11/24/2008	6:55	2	U	2	1	1	1	7	4		x	SS	3	3			5A
30	11/28/2008	12:00	2	U	1	1	1	2	7				SS	3	3			4A
38	11/29/2008	12:20	1	PDO/INJ	1	1	1	1	4				FO	1				4A
325	12/4/2008	23:30	2	PDO	4	1	1	1	13				SS	5	5			8
189	12/8/2008	7:07	2	PDO	1	1	1	1	4				RE	7	7			13
472	12/9/2008	20:25	2	INJ/PDO	4	1	1	1	18	7	7	13	LT	7	5			14
107	12/13/2008	14:25	2	INJ/PDO	1	1	1	1	17	62			RA	1	7			10
164	12/17/2008	16:40	2	PDO or NR	4	1	2	2	7				UNKNOWN	6	7			3A
40	12/23/2008	18:40	2	PDO	4	1	2	1	7				LT	4	1			9
17	12/26/2008	9:23	2	U	1	1	1	1	20				SS	7	7			5A
285	12/26/2008	18:35	2	PDO or NR	4	2	1	1	3				OTHER	3	7			12
286	12/29/2008	8:00	2	PDO or NR	1	1	1	2	4				RA	7	5			12
108	12/31/2008	9:44	2	PDO	1	1	4	4	7	69			LT	6	3			10
43	1/11/2009	17:39	2	PDO/INJ	4	1	4	4	66				RA	3	1			9
562	1/15/2009	7:15	2	PDO	1	2	2	2	19	7			RE	3	1			12A
521	1/15/2009	18:00	2	PDO or NR	3	1	1	1	4	x			SS	7	7			3A
44	1/18/2009	21:05	2	PDO	4	1	4	4	17	4			RA	7	5			9
349	1/24/2009	19:20	2	NR	4	1	1	2	9				RE	7	7			7
425	1/26/2009	1:12	2	PDO	4	1	1	1	5	3			SS	7	7			7A
399	1/26/2009	10:18	2	PDO or NR	1	1	1	1	17				RA	7	1			10
209	1/27/2009	9:10	2	PDO or NR	1	1	1	1	4				SS	3	7			14
417	1/28/2009	7:53	2	PDO	1	1	4	4	26				SS	3	3			8A
418	1/28/2009	9:09	2	PDO	1	1	4	4	66				RE	3	3			8A
429	1/29/2009	10:22	2	NR	1	1	4	1	69				SS	7	7			7A
566	1/31/2009	11:10	2	PDO	1	2	4	1	4				SS	3	3			12A
6	2/8/2009	10:34	2	PDO	1	1	2	7	18				LT	4	5			5
457	2/11/2009	0:02	1	FAT	4	1	2	2	x		14	x	PED	7				5A
447	2/26/2009	2:30	2	PDO	4	1	2	3	4	x			RE	7	3			7A
405	2/26/2009	7:30	2	PDO	1	1	4	5	7		66		RT	6	7			9A
438	3/3/2009	21:29	2	PDO	4	1	1	1	13				SS	7	7			7A
287	3/4/2009	7:39	2	PDO or NR	1	1	1	1	62	7			LT	3	7			12
23	3/6/2009	12:25	2	PDO/INJ	1	1	1	2	17				RA	1	3			5
388	3/9/2009	10:37	2	PDO or NR	1	1	2	2	4	x			RA	1	3			11A
210	3/10/2009	16:30	2	PDO	1	1	1	2	4	20			SS	3	3			13A

Time Period																		
From:		11/01/08	No. of Veh.	Severity (NR, PDO, INJ, FAT)	Light Conditions	Roadway Character	Roadway Surface Condition	Weather	Apparent Contributing Factors				Type	Direction				Location
To:		10/31/11							19	20	21	22		V1	V2	V3	V4	
No. of Months:		36																
ID No.	Date	Time																
211	3/14/2009	17:50	2	NR	1	1	1	1	4				RE	5	5			14
519	3/20/2009	18:32	2	PDO or NR	1	1	1	1	3				SS	7	3			3A
165	3/20/2009	21:00	3	PDO	4	1	1	1	4	20			OTHER	7	7	7		3A
212	3/24/2009	17:30	2	PDO	1	1	1	1	18	69			RA	1	3			13A
427	3/24/2009	20:09	2	PDO	4	1	1	1	4	x		x	SS	7	7			7A
288	3/29/2009	5:47	4	PDO	4	1	2	3	4	13			OTHER	7	7	7	7	12
166	3/30/2009	12:10	1	INJ	1	1	1	2			14		BIKE	1	7			3A
91	3/30/2009	22:41	2	PDO	4	1	1	1	4				UNKNOWN	0	3			3A
45	3/31/2009	17:25	2	NR	1	1	1	1	4		4		SS	2	2			9
46	4/1/2009	16:24	2	PDO	1	1	2	3	13	7			SS	3	3			8A
443	4/2/2009	13:10	1	INJ	1	1	1	1	4				PED	8				7
213	4/2/2009	14:00	2	NR	1	1	1	1	4		7		RA	6	8			14
559	4/13/2009	13:31	2	INJ/PDO	1	1	1	1	13	20			RA	5	3			12A
214	4/19/2009	22:20	2	PDO	4	1	1	2	3				RA	2	5			14
460	4/27/2009	9:14	3	PDO or NR	1	1	2	3	4				SS	7	7			5A
47	4/28/2009	13:26	2	PDO	1	1	1	1	7				LT	2	7			9
463	4/28/2009	16:35	3	PDO	1	1	1	1	4				RE	3	3			5A
415	4/29/2009	17:59	2	PDO	1	1	1	1	7				LT	7	3			9
7	5/1/2009	6:30	2	PDO	1	1	1	2	4				SS	3	3			4A
289	5/2/2009	3:30	3	PDO	4	1	2	3	2	18			OTHER	5	5	5		12
567	5/9/2009	14:30	2	PDO	1	1	1	1	4	5			RE	0	7			12A
556	5/16/2009	17:19	2	PDO or NR	1	2	1	2	9				RE	7	7			12A
92	5/18/2009	13:13	2	PDO	1	1	1	2	4				SS	1	1			3
215	5/18/2009	21:00	2	PDO or NR	4	1	1	1	3				RE	1	5			14
398	5/26/2009	16:36	2	PDO or NR	1	1	1	2	13				SS	3	3			9A
290	5/27/2009	8:12	2	PDO	1	2	2	3	7				LT	8	5			12
190	5/27/2009	8:42	2	PDO	1	1	2	2	4	9			RE	3	3			13
326	5/30/2009	11:20	2	PDO	1	1	1	1	13				SS	5	5			8
350	6/2/2009	22:30	3	INJ/PDO	4	1	1	1	18	27			OTHER	7	7			6A
515	6/3/2009	10:55	2	PDO or NR	1	1	1	2	9				RE	7	7			3A
480	6/11/2009	5:37	4	PDO	2	1	1	2	19	18			RE	7	5	5	5	12A
216	6/11/2009	20:57	1	INJ	4	1	2	3	66		x		PED	3				14A
110	6/13/2009	22:37	1	PDO	4	1	2	3	19	28			FO	1				10
48	6/15/2009	13:34	2	PDO	1	1	2	3	17	66			RA	7	1			9
432	6/18/2009	12:10	2	PDO	1	1	2	3	7	4			SS	3	3			7A
448	6/23/2009	15:45	2	PDO	1	1	1	1	26				SS	6	7			6A
49	6/26/2009	23:57	4	PDO	4	1	2	6	2	4			SS	3	3	3	3	8A
402	6/27/2009	15:00	2	PDO or NR	1	1	1	2			18		LT	3	1			9A
167	6/27/2009	18:00	2	INJ	1	1	1	2	13				RT	3	4			4
400	6/28/2009	17:12	2	NR	1	1	1	1	4				RE	3	3			10
39	6/29/2009	18:01	2	U	1	1	1	1	18	69	69	x	UNKNOWN					U
93	7/1/2009	9:59	2	PDO	1	1	1	2	4				SS	1	1			3
327	7/1/2009	19:01	2	PDO	1	1	2	3			18	7	RA	7	7			8A
291	7/2/2009	10:40	2	INJ/PDO	1	1	2	3	17				RA	5	3			12
481	7/2/2009	19:30	3	PDO or NR	1	1	2	3	20	7			OTHER	7	7	7		12A
217	7/5/2009	3:10	1	PDO or NR	4	1	1	1	5				FO	7				14A
111	7/6/2009	6:50	2	PDO	1	1	1	1	17				RA	5	3			10
112	7/6/2009	21:50	2	INJ/PDO	5	1	1	2	7		69		RA	7	6			10
94	7/7/2009	8:10	2	PDO	1	1	1	1	9				RE	1	1			3
95	7/9/2009	8:05	2	PDO or NR	1	1	1	2	9				RE	7	7			3
435	7/12/2009	11:03	2	PDO or NR	1	1	1	1	4	x	26		RE	3	3			7A
292	7/13/2009	15:00	2	PDO or NR	1	2	1	1	4				SS	7	7			11A

Time Period			No. of Veh.	Severity (NR, PDO, INJ, FAT)	Light Conditions	Roadway Character	Roadway Surface Condition	Weather	Apparent Contributing Factors				Type	Direction				Location
From:	11/01/08								19	20	21	22		V1	V2	V3	V4	
To:	10/31/11																	
No. of Months:	36																	
ID No.	Date	Time																
351	7/15/2009	12:23	2	PDO	1	1	1	1	7				RA	2	3			6A
328	7/18/2009	16:15	1	PDO	1	1	1	2	13	14			BIKE	3	3			8
395	7/20/2009	17:05	2	INJ/PDO	1	1	1	1	7				SS	6	3			10
383	7/21/2009	14:34	2	NR	1	1	2	3	13				SS	7	7			11A
329	7/27/2009	14:56	1	INJ	1	1	1	1		7			PED	6				8
218	8/1/2009	0:45	2	NR	4	1	1	1	9				RE	7	7			13A
352	8/5/2009	0:05	2	NR	4	1	1	1	4				RE	3	3			7
527	8/5/2009	17:19	2	INJ/PDO	1	1	1	1		7			LT	7	1			13A
384	8/12/2009	3:13	2	PDO or NR	4	1	1	1	4	x			UNKNOWN	x	3			11A
50	8/15/2009	0:02	2	FAT	4	1	1	1	4		7	4	RA	3	5			9
293	8/16/2009	11:11	2	PDO	1	1	1	1	69				SS	7	7			12
168	8/19/2009	22:10	2	NR	4	1	1	1	7				LT	6	7			3A
219	8/22/2009	2:33	2	NR	4	1	1	1	13	x			SS	5	5			14
220	8/24/2009	8:12	2	PDO	1	1	1	1	9				RE	7	7			14
330	8/29/2009	2:30	2	PDO or NR	4	1	2	3	13				SS	7	7			8
27	8/29/2009	20:44	2	NR	4	1	1	1	4				RE	3	3			4A
548	8/31/2009	13:20	2	NR	1	1	1	2	7	20			SS	3	3			13A
113	9/2/2009	11:50	2	PDO	1	1	1	1	4				RE	3	3			10
191	9/3/2009	9:26	2	PDO	1	1	1	1	69	18	69		LT	1	7			13
82	9/5/2009	0:59	1	PDO	4	1	1	1	5				OTHER	7				11
51	9/10/2009	15:04	2	PDO or NR	1	1	1	1	20				SS	3	3			9
83	9/11/2009	15:50	2	INJ/PDO	1	1	2	3	7				RA	1	3			11A
114	9/14/2009	12:38	2	PDO	1	1	1	1	17				RA	7	5			10
192	9/19/2009	17:14	2	PDO or NR	1	4	1	1	69				RE	1	1			13
115	9/21/2009	9:21	2	INJ/PDO	1	1	1	1	17	62			RA	7	1			10
52	9/22/2009	6:16	2	PDO	2	1	1	2	17				RA	5	7			9
221	9/25/2009	23:17	2	PDO	4	1	1	1	7				LT	3	7			14
294	9/27/2009	10:05	2	PDO	1	1	2	3	5				SS	3	3			12
511	9/27/2009	20:28	4	PDO	4	1	2	3	4	5			OTHER	3	3	7	7	3A
376	10/1/2009	7:38	3	PDO	1	1	2	2	2	4			RE	7	7	7		12
570	10/1/2009	7:38	3	PDO	1	1	2	2	2				RE	7	7	7		12
545	10/7/2009	16:52	2	PDO or NR	1	1	1	1	7				SS	7	7			14
142	10/9/2009	17:15	2	PDO	1	1	2	3	4				SS	3	3			4A
31	10/10/2009	15:06	2	PDO	1	1	1	2	26				SS	3	3			4A
331	10/10/2009	23:50	1	INJ	4	1	2	3	14	7	14	7	PED			3		8
377	10/11/2009	17:30	2	PDO	3	2	1	1	9	4			RE	7	7			12
546	10/12/2009	21:07	2	INJ	4	1	1	1	9				RE	7	7			13A
555	10/14/2009	8:15	2	PDO	1	1	1	1	69		69		SS	7	7			13A
222	10/19/2009	14:35	1	INJ	1	1	1	1	4				BIKE	4				14
354	10/19/2009	20:35	2	PDO or NR	4	1	1	1	7				LT	8	7			7
116	10/20/2009	7:36	2	INJ/PDO	1	1	1	1	17				RA	1	3			10
353	10/21/2009	8:32	2	PDO	1	1	1	2	62	7			RE	3	1			7
143	10/21/2009	10:20	2	PDO or NR	1	1	1	2	3				RA	3	1			5
482	10/23/2009	11:00	3	NR	1	1	1	2	4				SS	7	3	7		12A
543	10/24/2009	23:13	2	PDO or NR	4	1	2	3	7				SS	7	7			13A
193	10/26/2009	10:15	2	PDO or NR	1	1	1	1	60				RE	4	4			12
541	10/27/2009	15:43	2	PDO	1	1	1	1					SS	3	3			13
186	10/30/2009	17:30	2	PDO	1	4	1	2	7				SS	7	7			3
194	10/31/2009	2:20	1	INJ	5	1	1	2	x		2	x	PED	3				13
117	10/31/2009	17:54	2	INJ	4	1	2	3	7				RA	3	5			10
483	11/1/2009	17:38	1	INJ	4	2	1	1	4	x	14		PED	3				12A
195	11/5/2009	17:40	2	PDO	5	1	2	3	7		7		SS	7	7			13



Time Period			No. of Veh.	Severity (NR, PDO, INJ, FAT)	Light Conditions	Roadway Character	Roadway Surface Condition	Weather	Apparent Contributing Factors				Type	Direction				Location
From:	11/01/08								19	20	21	22		V1	V2	V3	V4	
To:	10/31/11																	
No. of Months:	36																	
ID No.	Date	Time																
223	11/6/2009	13:00	2	PDO	1	1	1	2	4	x	7	x	LT	5	7		14	
53	11/6/2009	19:20	2	INJ	4	1	1	1			7	27	HO	7	3		9	
332	11/10/2009	21:14	2	PDO	4	1	1	1	18				SS	3	3		7A	
169	11/11/2009	14:40	2	PDO	1	1	1	2	3		3		SS	3	7		4	
542	11/13/2009	12:16	2	NR	1	1	1	1	3				RE	7	3		13A	
170	11/14/2009	18:45	1	INJ	4	1	2	3	4				PED	6			4	
224	11/15/2009	0:19	2	PDO	4	2	2	2	4	x	x	x	RE	1	0		14	
54	11/16/2009	7:00	2	PDO	2	1	6	7	17				RT	7	1		9	
118	11/18/2009	14:55	2	PDO or NR	1	1	1	1	4	x		x	RE	3	3		10	
355	11/19/2009	11:40	2	PDO	1	1	1	2	4	20			SS	3	3		6A	
171	11/20/2009	19:32	1	NR	4	1	1	1	69				PED	5			4	
144	11/21/2009	16:45	2	NR	4	1	1	2	9				RE	7	7		5	
172	11/24/2009	8:00	2	NR	1	1	1	2	13		13		SS	1	5		4	
145	11/25/2009	17:05	2	PDO	4	1	2	3	7				LT	7	5		4A	
225	11/27/2009	19:03	2	PDO	4	1	2	3	20				SS	3	3		13A	
226	11/27/2009	20:20	2	PDO	4	1	2	2	7				RA	5	7		13A	
295	11/29/2009	11:16	2	PDO	1	1	1	1	4				RE	7	7		12	
296	11/29/2009	22:34	2	PDO	4	1	1	1	4				RE	7	7		12	
84	11/30/2009	14:21	2	PDO	1	1	1	2	7				RA	3	3		11A	
146	12/1/2009	21:35	2	PDO or NR	4	1	1	1	9	4			RE	6	6		5	
13	12/2/2009	19:30	2	U	4	1	2	3	19				RE	3	3		5A	
564	12/4/2009	15:00	2	NR	1	1	1	1	13				SS	7	7		12A	
297	12/11/2009	8:30	2	PDO or NR	1	1	1	1	7				RA	3	5		12	
431	12/11/2009	13:32	2	PDO or NR	1	1	1	1	4	x		x	RE	7	7		7A	
298	12/13/2009	13:25	2	PDO or NR	1	3	4	4	26	60	61	26	SS	7	7		12	
299	12/15/2009	7:55	2	NR	1	1	2	2	26				SS	1	1		12	
484	12/15/2009	8:19	2	NR	1	1	2	2	4				RE	1	1		12A	
119	12/16/2009	14:05		U	U		U	U					UNKNOWN				U	
173	12/18/2009	8:00	2	PDO	1	1	1	1	62	9	62		RE	3	3		4	
174	12/18/2009	10:39	2	PDO	1	1	1	1	7	17			RA	7	1		4	
55	12/20/2009	15:00	2	INJ	1	1	1	1	17				RA	7	5		9	
120	12/23/2009	14:55	2	PDO or NR	1	1	4	4	66				SS				9A	
147	12/31/2009	12:00	2	PDO	1	1	4	4	20	4			SS	7	7		5	
450	1/2/2010	0:21	2	PDO or NR	4	1	4	4	66				RA	7	7		6A	
441	1/3/2010	23:00	2	PDO	4	1	4	4				x	UNKNOWN	0	3		6A	
121	1/4/2010	16:52	2	PDO or NR	3	1	2	1	9	19			RE	7	7		10	
56	1/5/2010	13:30	2	INJ	1	1	2	2	18				RA	5	3		8A	
1	1/5/2010	15:48	3	PDO	U	U	U	U					UNKNOWN	S			5	
57	1/5/2010	16:03	1	INJ	1	1	1	1	11				FO	5			9	
356	1/5/2010	16:39	2	PDO	4	1	4	1	9				RE	7	8		7	
148	1/5/2010	U	U	U	U	U	U	U					UNKNOWN				U	
345	1/7/2010	18:49	2	PDO	4	1	4	4	19	66			RE	7	7		8	
300	1/10/2010	16:45	2	PDO	3	2	2	1	7				LT	2	3		12A	
557	1/13/2010	18:01	2	PDO or NR	4	2	1	2	13				SS	3	3		12A	
357	1/14/2010	8:20	2	PDO	1	1	1	2	7	20			LT	3	3		7	
301	1/20/2010	17:21	2	PDO	4	1	2	2	7				LT	8	5		12	
302	1/22/2010	9:22	2	PDO or NR	1	1	1	1	4				SS	3	3		12	
416	1/27/2010	9:23	2	PDO	1	1	1	2	20				SS	7	7		8A	
333	1/28/2010	9:24	2	PDO	1	1	1	1	7	7			RA	6	7		8A	
122	1/28/2010	17:56	1	NR	4	1	2	2					PED	3			10	
58	1/29/2010	13:34	2	PDO	1	1	1	1	17		x		RA	7	1		9	
59	1/31/2010	0:45	2	NR	4	1	1	1	17				RA	3	1		9	

Time Period																		
From:		11/01/08	No. of Veh.	Severity (NR, PDO, INJ, FAT)	Light Conditions	Roadway Character	Roadway Surface Condition	Weather	Apparent Contributing Factors				Type	Direction				Location
To:		10/31/11							19	20	21	22		V1	V2	V3	V4	
No. of Months:		36																
ID No.	Date	Time																
485	1/31/2010	1:30	5	PDO	4	1	1	1	20				OTHER	2	7	7	7	12A
334	1/31/2010	13:59	1	INJ	1	1	1	1	7	4		x	PED	5				8
123	2/1/2010	12:51	2	PDO	1	1	1	1	7				RA	7	5			10
149	2/3/2010	14:52	2	PDO or NR	1	1	1	2	26				SS	7	7			5
553	2/6/2010	9:51	3	PDO	1	1	1	1	4	x		x	OTHER	7	7	7		12A
568	2/8/2010	12:00	2	INJ/PDO	1	1	1	2	7	x			SS	3	3			13A
303	2/11/2010	9:09	2	PDO or NR	1	1	1	1	4				RA	3	1			12
335	2/12/2010	10:50	2	PDO	1	1	1	1	7				SS	3	3			8A
150	2/13/2010	18:35	2	NR	4	1	1	1	3				RA	1	5			4A
336	2/16/2010	2:35	3	PDO	4	1	1	1	2	22		x	RE	7	7			8
151	2/18/2010	9:11	2	PDO or NR	1	1	1	1	9		9		RE	3	3			5
227	2/19/2010	21:13	3	PDO or NR	4	1	1	1	4				OTHER	7	7	7		13A
14	2/22/2010	14:45	2	PDO	1	1	1	2	3	4			SS	3	7			5A
152	2/22/2010	15:48	2	NR	1	1	1	1	3				RE	1	5			4A
60	2/25/2010	20:15	2	NR	4	1	2	3	3				RE	1	5			9
228	2/28/2010	11:03	2	PDO or NR	1	1	2	3	4		4		SS	3	3			14
96	3/2/2010	16:23	2	NR	1	1	1	1	4				RE	7	7			3
124	3/4/2010	9:38	2	PDO	1	1	1	1	13		18		SS	5	5			10
536	3/7/2010	0:06	1	INJ	1	1	1	2	7	4	4		PED	3				13A
436	3/8/2010	17:00	2	NR	3	1	1	1	13				SS	7	7			7A
139	3/8/2010	18:30	3	INJ/PDO	4	1	2	3					OTHER	5	3	3		5
276	3/10/2010	11:35	1	INJ	1	1	1	1	69		69		PED	3				5
522	3/10/2010	11:50	3	PDO or NR	1	1	1	1	13	x			RE	3	3	3		5
358	3/12/2010	16:27	2	NR	1	1	1	1	4				SS	3	3			6A
175	3/13/2010	22:26	2	PDO	4	1	1	2			26		RA	7	6			4
125	3/14/2010	6:59	2	PDO	2	1	2	2	4	17			RA	5	1			10
153	3/24/2010	8:15	2	NR	1	1	1	2	7				SS	3	3			5
359	3/26/2010	1:20	2	PDO	4	1	2	3		13	3		SS	7	7			7A
360	3/27/2010	17:47	2	NR	1	1	1	2	7	20			SS	7	7			7
229	3/29/2010	16:03	2	INJ/PDO	1	1	2	3	7				LT	8	3			13A
176	4/1/2010	12:20	2	NR	1	1	1	1	3	4			RE	7	3			4A
61	4/5/2010	15:10	2	PDO	1	1	1	2	7	5			LT	1	7			9
230	4/8/2010	10:32	2	PDO	1	1	1	1	9				RE	3	3			14
430	4/8/2010	15:25	2	PDO	1	1	1	1	13	4	3		RA	7	3			7A
62	4/8/2010	16:38	2	PDO	1	1	1	1	7				RA	3	5			9
422	4/10/2010	18:49	2	NR	1	1	1	1	3				RE	7	3			7A
63	4/10/2010	21:02	2	PDO	4	1	1	1	7				RA	7	5			9
97	4/15/2010	8:45	2	NR	1	1	1	1	7				SS	1	1			3
459	4/15/2010	17:00	2	PDO or NR	1	1	1	1	13				SS	3	3			5A
454	4/16/2010	9:25	2	PDO	1	1	1	1			4	20	LT	3	3			7A
486	4/19/2010	0:00	2	PDO or NR	U	1	1	2	3				RA	3	1			12A
196	4/19/2010	3:54	4	INJ/PDO	4	1	1	1	2	4			OTHER	7	7	7	7	13
98	4/19/2010	10:00	2	PDO or NR	1	1	1	2			4		SS	3	3			3
126	4/20/2010	18:28	2	PDO	1	2	1	1			17		RA	7	1			10
64	4/21/2010	15:25	2	PDO or NR	1	1	1	1	9				RE	7	7			9
231	4/22/2010	23:05	2	PDO	4	1	1	1	7				LT	5	1			14
177	4/23/2010	16:00	2	PDO	1	1	1	1	20				RE	7	7			4A
232	4/24/2010	20:21	1	INJ	4	3	2	1			14	4	BIKE	7	1			14
178	5/4/2010	21:50	2	NR	4	1	1	1	3				RE	7	3			4
154	5/6/2010	21:46	2	PDO	4	1	1	1	7				RA	3	5			5
197	5/8/2010	21:42	1	PDO	5	1	2	3	3	66			FO	5				13
65	5/11/2010	10:50	3	PDO	1	1	1	1	17	62			RA	7	1	1		9

Time Period																		
From:		11/01/08	No. of Veh.	Severity (NR, PDO, INJ, FAT)	Light Conditions	Roadway Character	Roadway Surface Condition	Weather	Apparent Contributing Factors				Type	Direction				Location
To:		10/31/11							19	20	21	22		V1	V2	V3	V4	
No. of Months:		36																
ID No.	Date	Time																
304	5/13/2010	8:02	2	INJ	1	1	1	1	18				LT	6	3			12
233	5/13/2010	10:15	2	PDO	1	1	1	1	13	4			SS	3	3			14
234	5/13/2010	11:15	2	PDO or NR	1	1	1	1	4				SS	3	7			14A
554	5/17/2010	16:05	2	PDO	1	1	1	1	4				SS	3	3			12
235	5/19/2010	18:05	2	PDO or NR	1	1	2	3	27		27		SS	7	3			14A
423	5/20/2010	19:03	1	NR	3	1	1	1			14		BIKE	1	3			7A
66	5/24/2010	10:55	2	INJ/PDO	1	1	1	1			7	4	LT	3	5			9
507	5/24/2010	18:00	2	PDO	1	1	1	1	4	62			RA	7	1			4
32	5/25/2010	15:20	2	NR	1	1	1	1	3				RE	3	3			4A
547	6/2/2010	14:53	2	PDO or NR	1	1	1	1	4				SS	3	3			13A
361	6/4/2010	12:40	4	PDO	1	1	1	1	17				OTHER	7	1	3	7	7
381	6/8/2010	15:30	2	PDO	1	2	1	1	4				SS	7	7			13A
67	6/8/2010	18:05	2	INJ/PDO	1	1	1	1	9				RE	3	2			9
305	6/11/2010	12:20	1	INJ	1	1	1	1			14		PED	7				12
68	6/17/2010	19:30	2	PDO	1	1	1	1	62				LT	5	3			9
198	6/18/2010	9:19	2	PDO or NR	1	1	1	1	9	x			RE	7	7			13
236	6/19/2010	10:37	2	PDO or NR	1	1	1	1	13				SS	3	3			13A
69	6/25/2010	14:00	2	INJ	1	1	1	1			17		RA	7	1			9
127	6/25/2010	23:00	2	PDO	4	1	1	1	4				SS	3	3			10A
473	6/28/2010	16:55	2	PDO	1	2	1	2	7				SS	3	3			13A
306	6/28/2010	17:29	2	NR	1	2	1	1	4		4		SS	7	7			12A
307	6/29/2010	17:45	2	PDO	1	2	1	1	7				LT	6	3			12
179	7/2/2010	13:55	2	PDO	1	1	1	1	18	4			SS	3	3			3A
199	7/5/2010	22:50	2	PDO	4	2	1	1	4				RE	5	5			13
308	7/7/2010	14:21	2	INJ	1	1	1	1	18	7			SS	3	3			12
70	7/7/2010	17:36	2	PDO or NR	1	1	1	1	17				RA	5	1			9
25	7/7/2010	1:30	1	PDO	1	1	1	1					FO	7				U
99	7/8/2010	22:31	2	PDO or NR	4	1	1	1	2				RE	3	3			3
277	7/13/2010	23:00	2	PDO	4	1	2	1	13				SS	7	7			5
362	7/16/2010	16:16	1	INJ	1	1	1	1	4		14		BIKE	1	7			7A
237	7/21/2010	12:58	2	NR	1	1	1	1	18				RE	8	1			14
337	7/24/2010	22:35	2	PDO	4	1	2	3	66		66	69	SS	3	3			7A
180	7/26/2010	9:00	2	NR	1	1	1	1	4	13			SS	3	3			3A
128	7/31/2010	12:00	2	PDO	1	1	1	1	4				SS	5	5			10
474	8/3/2010	13:15	2	PDO	1	1	1	1	4				RE	5	4			14
309	8/8/2010	15:00	2	INJ	1	1	1	1	4				SS	3	3			12A
338	8/10/2010	20:15	4	PDO or NR	4	1	1	1	7	17			HO	1	5			8
310	8/11/2010	11:11	2	INJ/PDO	1	1	1	1	7				RA	1	5			12
240	8/11/2010	20:52	2	NR	4	1	1	1	4				RE	7	7			14
241	8/17/2010	22:17	2	PDO	4	1	1	1	4				RE	7	7			14A
200	8/20/2010	9:00	2	NR	1	1	1	1	4				SS	3	3			12A
540	8/27/2010	0:05	2	PDO	5	1	1	1	4	7			SS	3	7			13A
129	8/27/2010	14:40	3	PDO	1	1	1	1	17				OTHER	3	5	1		10
311	8/28/2010	14:50	2	NR	1	2	1	1	7	20			SS	3	3			11A
181	9/4/2010	20:10	2	NR	1	1	1	1	9				RE	3	4			4
155	9/7/2010	13:00	3	INJ/PDO	1	1	1	1	9	42			OTHER	3	3	3		5A
312	9/7/2010	16:01	2	PDO or NR	1	2	1	1	4				SS	3	7			11A
182	9/8/2010	10:00	2	PDO	1	1	1	1	4	3			SS	0	3			4A
339	9/9/2010	17:24	2	PDO	1	1	1	2	26				RE	7	7			8
475	9/10/2010	21:45	2	PDO	4	1	1	1	13				SS	3	3			14A
476	9/11/2010	10:53	2	NR	1	1	1	1	4	7			LT	4	3			14A
100	9/12/2010	12:34	2	INJ	1	1	1	2	9				RE	1	1			3

Time Period			No. of Veh.	Severity (NR, PDO, INJ, FAT)	Light Conditions	Roadway Character	Roadway Surface Condition	Weather	Apparent Contributing Factors				Type	Direction				Location
From:	11/01/08								19	20	21	22		V1	V2	V3	V4	
To:	10/31/11																	
No. of Months:	36																	
ID No.	Date	Time																
71	9/14/2010	10:15	2	PDO	1	1	1	1	17	7			RA	3	1			9
101	9/15/2010	22:10	2	PDO or NR	4	1	1	2	9				RE	3	3			3
10	9/16/2010	11:50	2	PDO	1	1	1	1	4				RE	7	3			3A
72	9/17/2010	3:03	2	NR	4	1	2	2	18				SS	5	3			9
363	9/17/2010	12:15	2	PDO	1	1	2	2	3				RE	7	3			6A
130	9/18/2010	10:05	1	INJ/PDO	1	1	1	1		17			BIKE	3	5			10
131	9/18/2010	17:00	3	PDO or NR	1	1	1	1	4				SS	3	3	3		10A
313	9/19/2010	14:41	2	NR	1	1	1	1	9				RE	3	3			12
340	9/19/2010	18:19	2	NR	1	1	1	2	4				SS	5	5			8
314	9/19/2010	23:28	2	PDO	4	1	1	1	17		x		RT	3	1			12
156	9/20/2010	21:30	2	PDO or NR	4	1	1	1	4				RE	1	1			5A
315	9/23/2010	12:30	2	INJ/PDO	1	1	1	1	4				RA	7	5			12
316	9/23/2010	18:05	2	PDO or NR	1	2	1	1	20				SS	3	3			12A
73	9/24/2010	9:55	2	PDO or NR	1	1	1	1	17				RA	3	1			9
102	9/26/2010	0:38	2	PDO or NR	5	3	1	1	13				SS	7	7			3A
132	9/27/2010	8:15	2	NR	1	1	2	3	7				LT	7	3			10
341	9/27/2010	18:05	2	PDO	3	1	2	3	7	18			RA	5	7			7A
508	9/27/2010	19:21	1	INJ	4	1	2	3	4		14		PED	3				4A
85	9/28/2010	8:10	1	PDO	1	2	2	3	42				OTHER	5				10A
74	9/30/2010	8:05	2	PDO or NR	1	1	2	3	27				SS	3	3			9A
103	9/30/2010	20:44	2	PDO	4	1	2	3	4				RE	3	3			3
86	10/2/2010	16:45	2	PDO or NR	1	1	1	1	18		x		SS	4	4			11
133	10/4/2010	19:39	2	INJ/PDO	4	1	2	3	17				RA	3	1			10
364	10/5/2010	12:24	2	INJ/PDO	1	1	2	2	7				RT	7	8			6A
242	10/6/2010	6:45	2	NR	2	1	2	3	9	66			RE	7	7			14A
342	10/8/2010	0:15	2	NR	4	1	1	1	9				RE	5	5			8
134	10/9/2010	3:52	2	PDO or NR	4	1	1	1	9				RE	5	5			10
561	10/10/2010	11:24	2	PDO	1	1	1	1	7		4		SS	3	3			12A
243	10/14/2010	11:07	4	INJ/PDO	1	1	1	2	7				OTHER	7	5	3	3	14
9	10/15/2010	16:16	2	PDO	1	1	2	3	4	5			SS	3	3			14
385	10/16/2010	1:00	2	PDO	4	2	1	1	64				SS	7	7			11A
516	10/16/2010	11:30	2	PDO or NR	1	1	1	2	4				RE	7	7			3A
407	10/19/2010	11:51	2	PDO or NR	1	1	1	1	7	69	x		LT	3	7			9
244	10/20/2010	19:29	1	PDO or NR	4	1	1	2	26	x			OTHER	5				14
477	10/20/2010	20:17	2	PDO	4	1	1	1	4	x			SS	7	7			14
378	10/21/2010	13:30	2	PDO	1	1	1	1	17				RA	7	5			12
537	10/22/2010	16:37	2	PDO	1	1	1	2	4				SS	3	3			13A
317	10/25/2010	8:25	2	NR	1	2	1	2		7			LT	3	6			12
135	10/27/2010	8:39	3	PDO	1	1	2	3		7			OTHER	3	5	1		10
245	10/29/2010	15:50	2	PDO	1	1	1	2	20	x	x	x	SS	3	3			14
75	10/29/2010	22:50	2	PDO or NR	4	1	1	1		5	4		LT	7	2			9
206	10/31/2010	16:30	2	NR	1	1	1	1	4				SS	7	7			12A
201	11/1/2010	14:54	2	PDO	1	1	1	2	9	4			RE	3	3			13
136	11/3/2010	18:02	2	PDO or NR	3	1	1	1	4				LT	7	1			10
87	11/4/2010	9:35	2	PDO	1	1	2	3	4				RE	7	7			11
157	11/12/2010	9:30	2	NR	1	1	1	1	4	9			RE	3	3			4A
158	11/12/2010	14:30	2	PDO	1	1	1	1	7				LT	7	5			5
318	11/14/2010	4:25	2	INJ/PDO	4	1	1	1	4				RE	3	3			12
15	11/17/2010	16:00	2	NR	4	1	2	3	4				PARK	0	5			6A
365	11/18/2010	14:10	2	PDO	1	1	1	2	7				SS	3	3			7A
137	11/19/2010	23:15	2	PDO	4	1	1	1	20	x	x	x	RE	7	7			10
203	11/20/2010	1:39	3	PDO or NR	4	1	1	1	2				OTHER	3	3	3		14

Time Period			No. of Veh.	Severity (NR, PDO, INJ, FAT)	Light Conditions	Roadway Character	Roadway Surface Condition	Weather	Apparent Contributing Factors				Type	Direction				Location
From:	11/01/08								19	20	21	22		V1	V2	V3	V4	
To:	10/31/11																	
No. of Months:	36																	
ID No.	Date	Time																
344	11/22/2010	17:19	3	PDO or NR	4	1	2	3	18	4			OTHER	3	3	3	8A	
138	11/29/2010	18:07	1	NR	4	1	1	1	7		14		PED	6			10	
319	11/30/2010	14:11	2	PDO or NR	1	1	2	3	9				RE	1	1		12	
455	11/30/2010	21:32	2	PDO or NR	4	1	2	2	4				SS	3	3		6A	
392	12/1/2010	14:33	2	PDO or NR	1	1	2	3	4				SS	3	3		10A	
366	12/1/2010	15:23	1	INJ	1	1	2	3	69		69	69	PED	1			7	
528	12/9/2010	7:58	2	PDO or NR	1	1	1	1	26				HO	4	1		13A	
88	12/9/2010	8:03	3	PDO	1	1	1	1	62				RE	3	3	3	11	
76	12/11/2010	0:35	3	INJ	1	1	1	2	7				LT	3	7	7	9	
77	12/12/2010	2:36	2	PDO	4	1	2	2	4				LT	6	7		9	
278	12/12/2010	7:04	2	PDO or NR	2	1	4	5	66				OTHER	7	7		5	
21	12/13/2010	17:37	2	PDO/INJ	4	1	1	2	9				RE	7	7		5	
183	12/14/2010	8:15	2	PDO	1	1	4	4	7				RA	2	7		4	
367	12/14/2010	16:25	1	INJ	3	1	2	1	4				PED	8			7	
16	12/15/2010	8:00	2	PDO/INJ	1	1	1	1	69	9			RE	3	3		5	
444	12/15/2010	9:50	2	PDO	1	1	1	1	69		69	7	RA	7	5		6A	
78	12/21/2010	11:45	2	PDO or NR	1	1	1	2	4		4		SS	3	3		9	
202	12/22/2010	15:51	2	PDO	3	1	1	1	18				LT	7	7		13	
343	12/24/2010	4:07	2	PDO	4	1	1	2	18	7			SS	7	7		7A	
512	12/28/2010	14:40	2	PDO or NR	1	1	2	2	4				SS	3	3		4A	
33	12/28/2010	18:55	2	PDO	4	1	2	2	4				SS	3	3		U	
104	12/29/2010	18:25	2	NR	4	1	2	2	x	x			SS	7	7		2A	
320	12/31/2010	23:22	2	PDO or NR	4	2	2	1	9	x			RE	3	3		12	
321	1/6/2011	9:30	2	INJ	1	1	1	1	7	18			LT	5	3		12	
523	1/9/2011	1:28	2	PDO or NR	4	1	4	1	3				RE	7	3		4A	
246	1/10/2011	11:15	2	PDO or NR	1	1	1	1	25	18			LT	4	1		14	
426	1/13/2011	20:39	2	PDO or NR	4	1	5	1	7				SS	3	3		7A	
517	1/20/2011	1:02	2	NR	4	1	4	4	4	x			SS	3	3		3A	
437	1/26/2011	7:45	2	PDO	1	1	4	2	7				RA	1	3		7A	
26	1/31/2011	18:15	2	U	4	1	1	1	18		x		LT	8	7		5	
184	2/2/2011	16:20	2	PDO	1	1	4	2	7				RA	7	1		4	
558	2/3/2011	6:45	2	PDO or NR	1	1	4	1	66				RE	7	7		12A	
386	2/3/2011	12:55	2	PDO or NR	1	1	5	1	4				SS	7	7		11A	
22	2/3/2011	14:00	2	NR	1	1	2	2	4		4		SS	3	3		U	
458	2/3/2011	19:17	2	PDO	4	1	4	2	9				RE	3	3		5A	
453	2/5/2011	13:44	2	PDO or NR	1	1	2	3	4				SS	3	3		6A	
532	2/7/2011	7:38	2	PDO or NR	1	1	2	2	4				SS	5	1		14	
391	2/9/2011	6:10	3	INJ/PDO	2	1	1	1			7	64	RA	3	1	3	11	
408	2/9/2011	14:44	2	PDO or NR	1	1	4	1	4				UNKNOWN	0	3		9A	
247	2/10/2011	8:25	2	PDO	1	1	1	1	62		7		LT	36			12	
509	2/12/2011	16:43	2	PDO or NR	1	1	2	1	4	62			RA	5	7		4A	
28	2/23/2011	7:40	1	INJ	1	1	1	1	7	62			PED	1			4	
419	2/26/2011	0:00	2	PDO or NR	4	1	4	4	66				UNKNOWN	0	3		8A	
238	2/27/2011	9:36	2	INJ/PDO	1	1	2	1	7				RA	1	7		7	
249	3/3/2011	17:51	2	PDO	4	1	1	1	7				LT	6	3		12	
456	3/4/2011	12:45	2	PDO	1	1	1	1	4	66			LT	3	7		5A	
466	3/8/2011	20:51	2	PDO or NR	4	1	2	2	4				SS	3	7		14	
549	3/10/2011	18:16	2	PDO or NR	4	1	2	3	7	x			LT	5	7		13A	
520	3/12/2011	0:00	2	PDO	U	1	U	2	4	x			SS	7	7		3A	
409	3/15/2011	6:58	2	NR	2	1	1	1	17	19			RA	5	3		9	
440	3/15/2011	7:30	2	NR	1	1	1	1	13	x			SS	3	3		6A	
397	3/16/2011	10:58	2	PDO or NR	1	1	2	3	3				HO	3	3		9A	

Time Period			No. of Veh.	Severity (NR, PDO, INJ, FAT)	Light Conditions	Roadway Character	Roadway Surface Condition	Weather	Apparent Contributing Factors				Type	Direction				Location
From:	11/01/08								19	20	21	22		V1	V2	V3	V4	
To:	10/31/11																	
No. of Months:	36																	
ID No.	Date	Time																
260	3/21/2011	19:40	2	PDO or NR	4	1	2	3	20				SS	7	7			9
421	3/25/2011	15:46	2	PDO or NR	1	1	1	1	4				SS	5	5			8
533	3/26/2011	19:17	2	PDO	3	1	1	1	4				LT	8	3			13A
254	3/27/2011	18:48	2	INJ	3	1	1	1	4				RE	7	7			8
261	3/30/2011	14:58	1	NR	1	1	1	1	3				BIKE	7	3			9
272	3/31/2011	11:51	3	INJ/PDO	1	1	1	1	7				OTHER	5	3	3		10
262	4/1/2011	6:42	3	INJ/PDO	2	1	2	4	17				OTHER	3	1	3		9
506	4/3/2011	18:15	2	NR	1	1	1	1	7	18			SS	7	7			4A
505	4/4/2011	19:03	2	PDO or NR	1	1	2	2	3				SS	7	3			4A
445	4/7/2011	7:05	2	PDO	1	1	1	1	62	69			RA	5	7			6A
250	4/7/2011	18:50	2	PDO or NR	1	1	1	1	9				RE	3	3			12
205	4/9/2011	6:53	2	PDO or NR	1	1	1	1	18	17			RT	7	7			3
489	4/12/2011	17:57	2	PDO	1	1	1	1	4				RT	5	7			14
525	4/26/2011	9:15	2	PDO or NR	1	1	2	2	3				RA	4	1			14
413	4/26/2011	12:33	2	PDO or NR	1	1	1	2	4				RE	3	3			9
268	4/26/2011	23:33	2	PDO	4	2	2	3	9	15			RE	7	7			11
255	4/27/2011	18:25	1	INJ	1	1	2	3			17		BIKE	7	5			8
467	5/3/2011	9:00	2	PDO or NR	1	1	1	2	7	69	13		LT	4	3			14A
263	5/6/2011	15:23	2	INJ	1	1	1	1	9				RE	7	7			9
35	5/8/2011	13:02	2	U	1	1	1	2	69	x		x	RT	3	7			U
487	5/9/2011	8:51	2	PDO or NR	1	1	1	1	4				LT	3	7			14
264	5/10/2011	17:18	2	INJ	1	1	1	1	9	4			RE	3	3			9
29	5/12/2011	17:52	2	U	1	1	1	1	13				SS	3	3			4A
251	5/16/2011	23:40	5	PDO	4	1	2	3	17				OTHER	7	1	7	7	12
265	5/19/2011	0:05	2	NR	4	1	2	3	9	13			SS	3	3			8
274	5/21/2011	19:29	1	PDO or NR	1	1	2	2	17				BIKE	5	7			14
565	5/24/2011	12:30	1	NR	1	1	1	2	15				ROR	3				2A
538	5/25/2011	17:45	2	PDO or NR	1	1	1	1	18				RT	4	3			13A
252	5/26/2011	15:52	2	NR	1	1	1	1	4	x			SS	3	3			12
560	5/28/2011	4:09	1	INJ	4	1	1	1	28				PED	3				12A
8	6/3/2011	17:52	2	PDO/INJ	1	1	1	1	7				LT	2	7			13
266	6/8/2011	8:00	2	PDO	1	1	1	2	17				RA	1	7			9
267	6/11/2011	15:42	2	PDO or NR	1	1	2	3	4				SS	7	7			9
534	6/15/2011	16:07	2	PDO or NR	1	1	1	1	7	x			RA	5	3			14
253	6/16/2011	12:42	2	NR	1	1	1	1	13	x			SS	3	3			12
2	6/16/2011	16:44	2	PDO	1	1	1	1	4				RE	4	3			12A
273	6/18/2011	20:08	2	PDO	3	1	1	1	7				RA	6	3			5
394	6/23/2011	12:49	3	PDO	1	1	2	3	60				OTHER	3	3	3		10A
490	6/24/2011	22:25	3	PDO	4	1	2	2	9				RE	3	3	3		14
539	6/27/2011	13:10	2	NR	1	1	1	1	13				SS	3	3			13A
390	7/6/2011	11:00	2	PDO or NR	1	1	1	2	20				SS	3	3			10A
518	7/19/2011	10:00	2	NR	1	1	1	1	4	x			SS	3	3			3A
256	7/27/2011	19:32	2	PDO	3	1	1	1	7	13			SS	7	7			8
275	7/30/2011	8:40	2	PDO or NR	1	1	1	1	4				SS	7	7			13
270	7/30/2011	14:30	2	PDO	1	1	1	1	4	7			RT	7	7			4
464	7/30/2011	16:35	2	PDO or NR	1	1	1	1	7				SS	7	3			14
491	7/31/2011	1:15	2	PDO or NR	4	1	1	1	7				LT	5	3			14
428	7/31/2011	4:55	3	PDO	2	1	1	1	47				OTHER	3	3	7		7A
403	8/1/2011	16:05	2	PDO or NR	1	1	1	1	4				RE	3	3			9A
535	8/6/2011	18:31	2	PDO	1	1	2	3	4	5	x	x	SS	3	3			13A
563	8/8/2011	14:30	2	PDO or NR	1	1	1	1	4				RE	7	7			3A
258	8/19/2011	13:46	2	PDO	1	1	1	1	17				RA	1	7			9

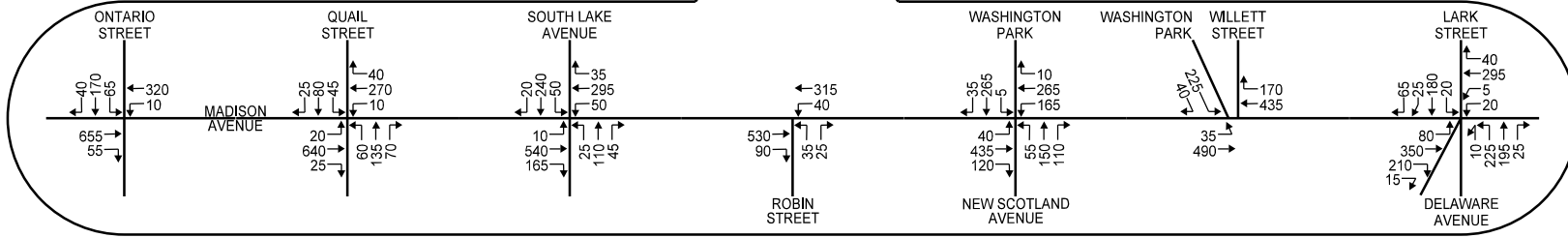
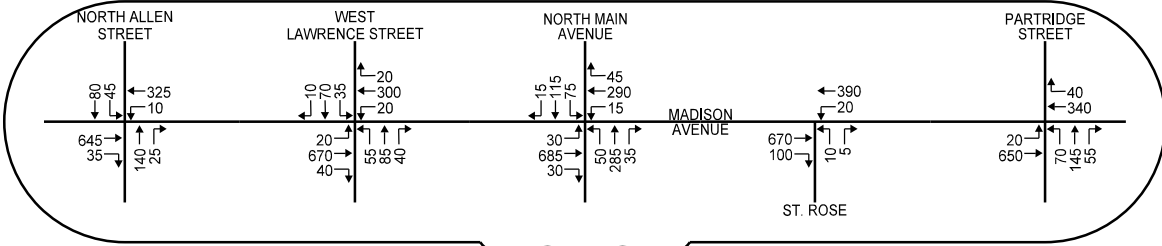
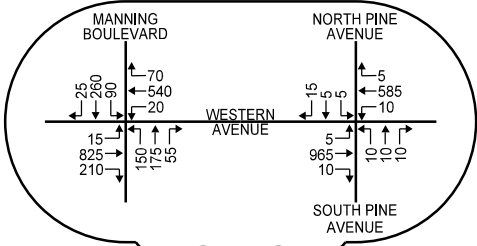
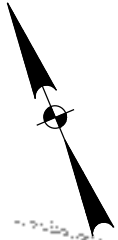




# **Appendix C**

## **Traffic Volumes**

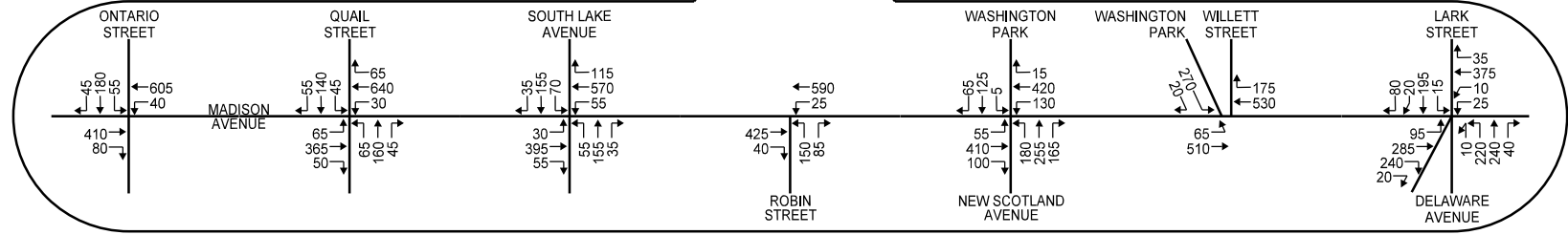
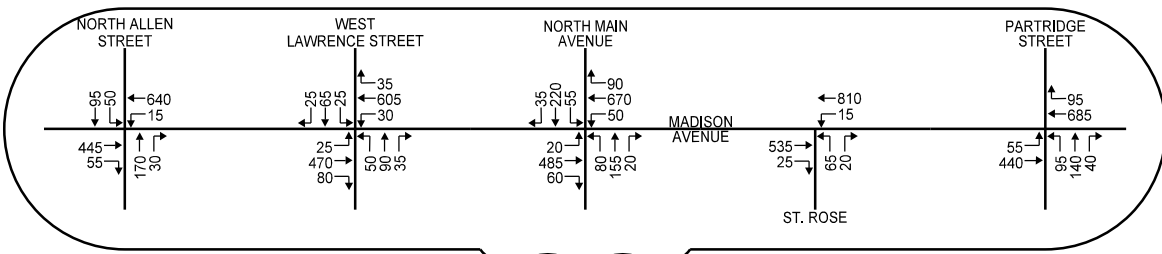
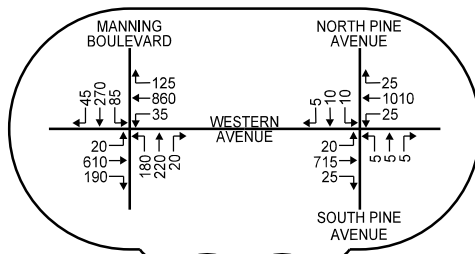
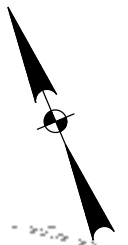
**Madison Avenue Road Diet Feasibility Study  
City of Albany, Albany County, New York**



AM PEAK HOUR  
TRAFFIC VOLUMES

MADISON AVENUE ROAD DIET  
CITY OF ALBANY





**PM PEAK HOUR  
TRAFFIC VOLUMES**

---

**MADISON AVENUE ROAD DIET  
CITY OF ALBANY**

**Creighton  
Manning**

PROJECT: 111-215	DATE: 9/2012	FIGURE: 2
------------------	--------------	-----------



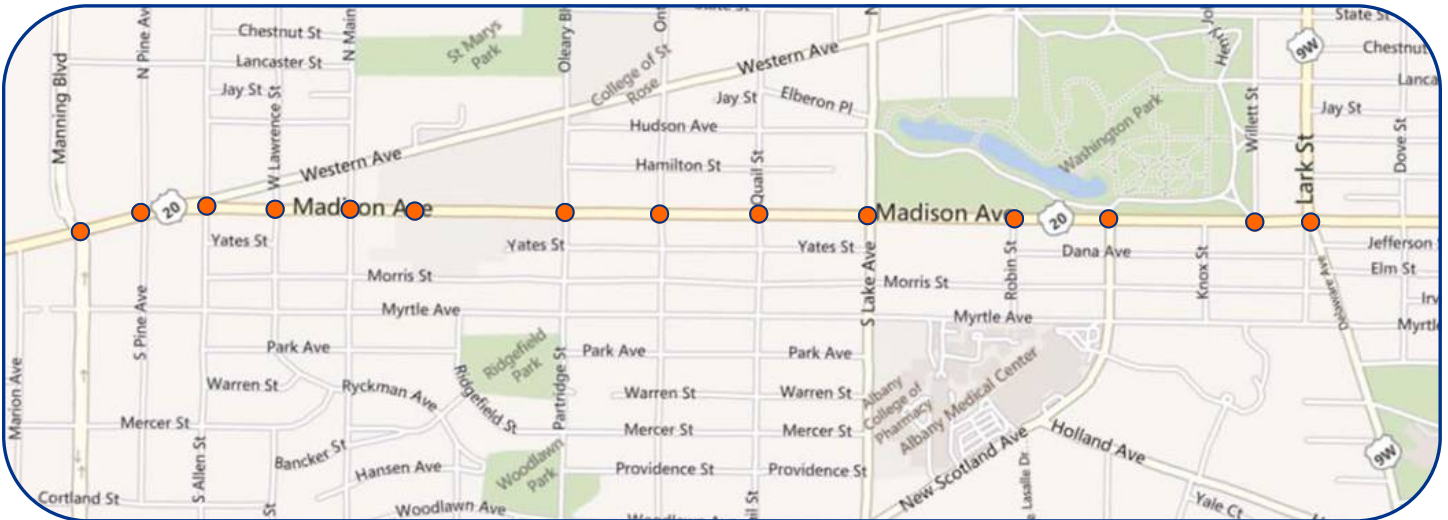
## **Appendix D**

# **Stakeholder and Public Involvement**

**Madison Avenue Road Diet Feasibility Study  
City of Albany, Albany County, New York**

**Madison Avenue Traffic Study / Road Diet Feasibility Study  
Stakeholder Meeting  
Wednesday, July 11, 2012 at 3:00  
The College of Saint Rose  
Touhey Forum in the Lally School of Education  
Meeting Summary**

The City of Albany has commenced a traffic study to evaluate the feasibility of implementing a road diet along Madison Avenue from Lark Street to South Allen Street and along Western Avenue from South Allen Street to Manning Boulevard. A meeting was held on July 11, 2012 to engage the stakeholders along the corridor. The purpose of the meeting was to obtain input on the corridor issues and alternatives before starting the detailed feasibility analysis. The stakeholder meeting was announced by an email flyer and invitation. The sign-in sheet is attached.



The stakeholder meeting began with a welcome from Bill Trudeau and a brief presentation by Jeff Pangburn and Mark Sargent of Creighton Manning. The presentation included a project introduction, existing conditions discussion, and identification of three potential road diet alternatives. A copy of the PowerPoint presentation is attached. At the conclusion of the presentation Jeff Pangburn facilitated a question/answer session. Comments and questions received from meeting attendees are divided by topic and include the following:

- Pedestrians
  - What type of accommodations will the alternatives look at (complete streets, ADA, sidewalks, etc.)?
  - The study will identify intersections that need pedestrian upgrades.
  - This is a heavily used pedestrian corridor.
- Cyclists
  - Cyclists may currently avoid Madison because there's "no room".
  - The study should consider a protected bikeway.
  - Cyclists know that car doors can open into their space (this may be a trade-off for various alternatives).
  - Protected bikeways can be costly and hard to maintain.
- Transit
  - The use of bus pull-ins and bump-outs makes a difference in whether vehicles stop behind a bus or can go around.
  - The CDTA ridership numbers cited in the presentation may be low because Saint Rose was closed for one week during March.
  - Route 114 has good ridership.
  - Bus pull-ins can become a "trap" for buses and sometimes the tail of the bus can extend out into the travel lane.

- Parking
  - Is angled parking an option?
  - Angled parking may not be as safe of a parking option for bicyclists.
  - The alternatives should maintain as much on-street parking as possible.
  - Parking should be provided on both sides of the street.
- Passenger Vehicles
  - The study needs to consider traffic re-routing to adjacent/parallel routes as a result of changing Madison.
  - The AADT on Western Avenue needs to be confirmed.
- Safety
  - Car to car conflicts are abundant in the corridor and improving the condition would be good.
  - Madison/Main is dangerous – speeds are high.
  - One of the benefits of a road diet is slowing down traffic.
- General
  - This is the first project of this kind in the City and is a key piece in Albany’s Bicycle Master Plan.
  - There is currently no construction budget to implement study recommendations.
  - The curb to curb width of the corridor is 57 feet.
  - The intersection of Western/Manning is part of a current project and the recommendations/plans will be integrated into this study.
  - There are no plans for curb re-alignment as part of this study.
  - The study should look at multiple treatment options.
  - Anecdotally, business owners think that it’s easier for pedestrians to cross the street to their shops, slower traffic will allow vehicles to see their businesses more easily, and truck deliveries near Lark may be difficult with a road diet.
  - The study should provide a comparison to Clinton Ave.
  - State Street (with the road diet) is better now that it used to be.

The next steps in the study are to confirm the alternatives and evaluate the alternatives across a range of criteria including dimensions, operations, accidents, etc.. Draft findings and recommendations will be developed by early Fall.

# Madison Avenue Traffic Study / Road Diet Feasibility Study

## Stakeholder Meeting

July 11, 2012

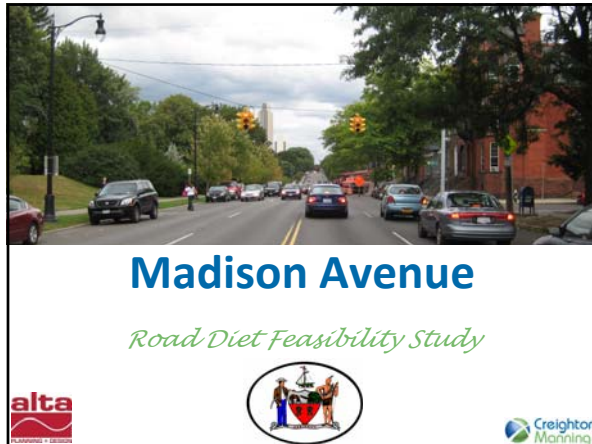
3:00 p.m.

Name	Representing	Phone	Email
PAUL K MILLER	HUDSON PARK NA	727 4127	HELDENTENOR43@YAHOO.COM
BILL SWEET	PRICE CHOPPER	379-1251	BILLSWEET@PRICECHOPPER.COM
Virginia Hammes	Pine Hills NA	438-0195	vhammer@ <del>g</del> gmail.com
Kate Lawrence	City of Albany Dept. of Dev. + Planning		lawrencek@ci.albany.ny.us
Bill Lawyer	CITY OF ALBANY Div of Eng	434 5670	LEWYK@CI.ALBANY.NY.US
Lindsay Zeffing	Alta Planning + Design	364 6629	Lindsay.Zeffing@altaplanning.com
Richard Conti	Common Council	436-8546	RC6thward@AOL.COM
Leah Golby	Common Council	438-1244/201244	leah.golby@gmail.com
Dominick Cololero	Common Council	859-5219	dcg1colero@nycap.ny.com
Joe Igoe	"	489-3014	jigoe1993@aol.com
Brendan Cox	Albany PD	462-8009	bcox@albany-ny.org
Randy Fitch	CDTA	437-8370	RandyF@CDTA.org
Ross Farrell	CDTA	437-6866	RossF@cdta.org
Jim Moore	U. Albany	442-3400	jmoore@albany.edu
Andrew Weiss	U Albany	442-3456	aweiss@albany.edu

over




Mike D'Attilio	Saint Rose	454-5115	dattilim@strose.edu
Marcus Buckley	Saint Rose	454-5216	buckleym@strose.edu
Steve Stella	" "	454-5139	stellas@strose.edu
Collin Hodges	CDTC	610-304-0952	colhodges@gmail.com
Sandy Misiewicz	CDTC	458-2161	smisiewicz@cdtcmppa.org



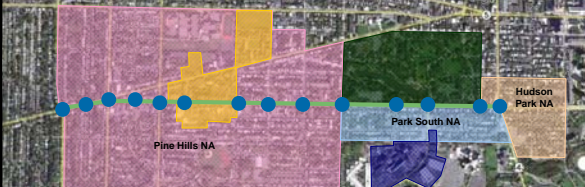
### Meeting Agenda

- Presentation Project Overview
  - Study Area
  - Project goals and purpose
  - Existing conditions
  - Preliminary alternatives
- Stakeholder input
- Next steps




### Study Area

1. Manning Boulevard ✓	8. Ontario Street
2. North/South Pine Avenue ✓	9. Quail Street ✓
3. North/South Allen Street ✓	10. North/South Lake Avenue
4. West Lawrence Street	11. Robin Street ✓
5. North/South Main Avenue	12. New Scotland Avenue ✓
6. St. Rose pedestrian signal ✓	13. Willett Street ✓
7. Partridge Street ✓	14. Lark Street ✓



### Project Goals and Definition


- Provide an assessment of the feasibility, costs, benefits, and impacts of a road diet on Madison Avenue



Source: FHWA Road Diet

- Evaluate 3 alternatives considering bicycles, pedestrians, transit, parking, safety, and passenger vehicle operations

### Existing Conditions



57-foot width from curb to curb

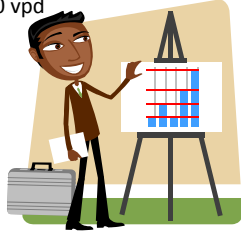
### Traffic Volumes

Location	ADT	Peak Hour Volumes (2-way)		
		AM	Off	PM
St. Rose to Partridge	14,900	970	930	1,230
Quail to S. Lake	13,400	920	800	1,090
S. Lake to Robin	14,400	1000	880	1,260
New Scotland to Willett	13,700	880	840	1,000

- Daily traffic volumes through the corridor are generally consistent
- PM peak hour traffic volumes are slightly higher than AM and off peak volumes

## Street Volume Comparison

- 3-lane section
  - State Street (Schenectady): 13,500 vpd to 16,000 vpd
  - Fuller Road: 24,500 vpd
  - Broadway (Menands): 9,000 vpd
  - Loudon Road: 19,000 vpd
- 2-lane section
  - Western Avenue: 6,500 vpd
  - Loudon Road: 15,250 vpd



## East Boulevard – Charlotte, NC

- 4 to 3 lane road diet
- 21,400 ADT before and 22,000 ADT after
- Speed reduction from 43 to 40 mph
- Safer pedestrian environment with shorter crossings and pedestrian refuge islands
- Improved bicycle accommodations



Photos: Dan Gallagher, Charlotte DOT

## Bicycles

- Bicycle volumes range in the corridor
  - AM = up to 15 bicycles per intersection
  - Off = up to 11 bicycles per intersection
  - PM = up to 23 bicycles per intersection
- Bikes share the road with vehicles



## Pedestrians

- Sidewalks are available throughout the corridor
- Pedestrian crossings vary
  - Crosswalks
  - Some pedestrian signals with timers
  - Push buttons
  - ADA ramps and detectors
- Pedestrian activity was observed throughout the corridor with highest volumes at Lark St.



## Transit

- CDTA Neighborhood Routes 63 and 114
  - 28,500 riders in March '12
  - Route 63 serves the area during commuter hours
  - Route 114 travels the corridor once every 50 minutes.
- Transfers to other neighborhood and commuter routes at Allen St, Main St, Quail St, New Scotland Ave, and Lark St



## Travel Speeds and Level of Service

Time of Day	Travel Speed (mph)	
	Eastbound	Westbound
AM (7:00-9:00)	16.9	18.5
Off (1:30-2:30)	17.1	18.0
PM (4:00-6:00)	18.5	15.2

- Arterial Level of Service (LOS C/D)

## Accident Review

- 481 accidents on the corridor
  - 270 at intersections
  - 204 along segment
  - 7 unknown
- Environmental Conditions
  - 58% clear weather
  - 70% dry pavement
  - 64% daylight
- Collisions of a type correctible by a road diet
  - 24% rear end
  - 31% sideswipe
- 7% (32 crashes) involving pedestrians or bicycles
- Contributing factors
  - driver inattention (27%)
  - failure to yield right-of-way (18%)

## Possible Alternatives

- Do Nothing (Null)
- 3 lanes with shared use lane and parking
- 3 lanes with bike lanes and parking
- 2 lanes with bike lanes and parking



## 3 Travel Lanes and Sharrows



## 3 Travel Lanes and Bike Lanes



## 2 Travel Lanes and Bike Lanes



Source: Chicago Bike Lane Design Guide

## Questions?

- What alternatives should be considered?
- What is your important evaluation criteria?
  - Cost
  - Bike friendliness
    - » traffic calming
    - » multimodal level of service
    - » access management
  - Traffic operations
    - » speed
    - » delay
    - » emissions
  - Safety
    - » accident reductions
    - » trade-offs
- What types of amenities should be considered and where are they needed?
- Other?



## Schedule / Next Steps

- ✓ Phase 1
  - ✓ Project Initiation
  - ✓ Existing Conditions
  - ✓ Stakeholder Input
- Phase 2
  - Alternatives Development
  - Analysis
  - Draft Findings
  - Stakeholder Input
  - Recommendations & Report





**Madison Avenue Traffic Study / Road Diet Feasibility Study**  
**Stakeholder Meeting #2**  
**Thursday, February 28, 2013 at 3:00**  
**The College of Saint Rose**  
**Touhey Forum in the Lally School of Education**  
**Meeting Summary**

The City of Albany has commenced a traffic study to evaluate the feasibility of implementing a road diet along Madison Avenue from Lark Street to South Allen Street and along Western Avenue from South Allen Street to Manning Boulevard. A meeting was held on February 28, 2013 to engage the stakeholders along the corridor. The purpose of the meeting was to present the draft findings of the study and obtain input on the corridor recommendations. The stakeholder meeting was announced by an email flyer and invitation. The sign-in sheet is attached.

The stakeholder meeting began with a welcome from Bill Trudeau and a brief presentation by Jeff Pangburn and Alanna Moran of Creighton Manning. The presentation included an overview of the project, review of Stakeholder Meeting #1 and the Albany Bicycle Coalition meeting, and presentation of the draft findings and recommendations of the feasibility study. A copy of the PowerPoint presentation is attached. At the conclusion of the presentation Jeff Pangburn and Alanna Moran facilitated a question/answer session.

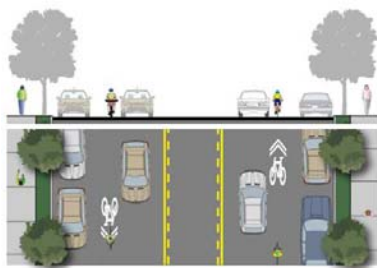
The study focuses on the five alternatives to determine feasible road diet alternatives. Due to roadway width restrictions and the need to accommodate turning traffic, other alternatives were considered “not feasible”.

- Alternative 1: Existing roadway configuration and planned signal improvements
- Alternative 2: 3-lane roadway through entire corridor without signal coordination
- Alternative 3: 3-lane roadway through entire corridor with signal coordination
- Alternative 4: 3-lane roadway along Madison Avenue without signal coordination
- Alternative 5: 3-lane roadway along Madison Avenue with signal coordination

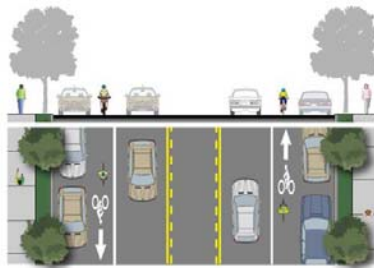
The analysis shows that Implementation of a Road Diet just along the Madison Avenue portion of the corridor with no signal coordination (Alternative 4) may be feasible, however, increased vehicle delays will be apparent. Including signal coordination in the project (Alternative 5) minimizes adverse impacts and brings vehicle delays closer to existing conditions. Alternative 5 is considered feasible. Alternatives 2 and 3 (road diet extending onto Western Avenue) are not feasible due to the sheer traffic volume and delays that would result from a road diet in this section.

There are three general roadway layout options for a road diet on Madison Avenue:

- Option A: Shared Travel Lane for bicycles and vehicles.
- Option B: Shared Parking Lane in which there is a wide parking lane for bicycles and parked vehicles.
- Option C: Exclusive Bike Lane in which vehicles, bicycles, and parked vehicles each have delineated space.



**Option A: Shared Travel Lane**



**Option B: Shared Parking Lane**



**Option C: Exclusive Bike Lane**

Although all three of these options appear feasible, Options B and C would require some concession on desirable lane widths (center turn lane should be 11 feet wide and the parking lanes should be 8 feet wide).

None of the three options meet all of the stakeholder goals, but are deemed to provide adequate bicycle accommodation on this roadway. Option A is consistent with recent pavement marking projects throughout the City with the use of Sharrows to indicate that cyclists share the travel lane with motorized vehicles. Option B shifts the bicycle accommodation into a shared parking lane, separating the bicycles from the travel lane but placing them against parked vehicles. Option C provides for exclusive delineated bicycle lanes but again places bicyclists against parked vehicles.

Comments and questions received from meeting attendees are divided by topic and include the following:

- Pedestrians
  - Is anything being done with bump-outs and raised crosswalks?
- Cyclists
  - League of American Bicyclists would not teach people to ride in the door zone
  - We need to be talking to people who aren't cycling right now, those who are afraid aren't using it
  - Bicyclists cannot be ticketed for not riding in their bike lane
- Transit
  - Isn't there delay associated with waiting behind the bus?
  - Bus activity would need to be addressed in detailed design
- Parking
  - Can diagonal tick marks be used for parking lane delineation?
- Safety
  - If the road diet goes in will there be an increase of accidents or wrong lane usage?
  - Good flow would create less desire for people to run the red lights
  - Is there potential for implementation of speed stripes?
  - Manning has definitely shown a traffic calming/speed reduction with the road diet
  - What's to keep this from being used as 2 lanes? (Alt A)
- Other Alternatives
  - What about a bikeway?
  - Did you think about putting the bike lane in the center of the road?
- General
  - The performance of the corridor and the chosen alternative shouldn't be driven by only bicycle accommodations
  - Will a white lane line mean slower vehicles?
  - Is there a benefit to using consistent symbols?
  - Is the Lark Street BID represented?
  - The lane line really makes people drive differently
  - Don't want to feel a false sense of security
  - What is Clinton Ave like?
  - What do other local communities have?
  - I like A

The next steps in the study are to present the draft findings to the public and finalize the feasibility study. The public meetings are scheduled for March 25, 2013.

# Madison Avenue Traffic Study / Road Diet Feasibility Study

## Stakeholder Meeting #2

February 28, 2013

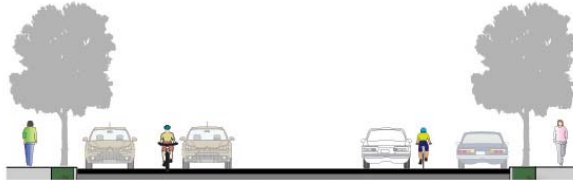
3:00 p.m.

Name	Representing	Phone	Email
Dominick Calso/aro	Common Council	859-5219	dcalsoaro@nycsp. <sup>RR</sup> rr.com
Kaylee Pagano	Pine Hills Blog	585-507-7431	pagano.k855@strose.edu
VIRGINIA HAMMER	PHNA - ACTING PRES	438-0195	vhammer@gmail.com
Margaret Lanoue	self	482-1809	margarettlanoue@yahoo.com
Marc Violette	self	482-1809	marc.violette@verizon.net
Bob Pistilli	Albany Med	262-8285	pistillb@mail.amc.edu
JOHN HAMMER	PIPE HILLS NEIGHBORHOOD ASK	438-0195	HAMMEJ@GMAIL.COM
Cynthia Herbach	Self	435-9748	sonix@nycap.rr.com
Joe Igoe	Common Council	489-3014	jigoe19932@aol
RANDY FITCH	CDTA	281-5757	RandyF@CDTA.org
Amy Jesaitis	self	489-9066	amyj1@nycap.rr.com
Leah Golby	Common Council	209-1244	leah.golby@gmail.com
Jim Moore	U. Albany	442-3412	jmoore7@albany.edu
Andrew Weiss	U Albany	442-3456	aweiss@albany.edu
EMILY MILLINGTON	U. Albany	442-3400	emilyton@army.fidL
Barna Jabari	U Albany	518-703-4619	Jabari.Borna@gmail.com
Jim Shind	ABC	436-6592	jimshind@smul.w





Ross Ferrell	CDTA	437-6866	Ross F@cdta.org
Sandy Misiewicz	CDTC	458-2161	smisiewicz@cdtcmpo.org
Bert Schou		221-8693	bert.090355@gmail.com





## Madison Avenue Road Diet Feasibility Study

*Stakeholder Meeting #2  
February 28, 2013*



### Why are we here today?

- Update since last meeting
- Present DRAFT Report findings
- Obtain input on recommendations






### Stakeholder Meeting #1 Recap

- Held on July 11, 2012 with about 20 attendees
- Comments/questions were received on the following:
  - Pedestrians
  - Cyclists
  - Transit
  - Parking
  - Passenger vehicles
  - Safety

### Follow up Meeting Recap

- Meeting with Bike Coalition - held on August 10, 2012
- Discussion centered on bike treatment options
  - The roadway width is a limiting factor
  - Curbside transit conflicts with bike lanes
  - Potential to create buffer between bike and parked cars?
- Should a parallel roadway be used as the "preferred" bike route?

### Project Goals and Definition

- Evaluate the feasibility of a road diet on Madison Avenue




Road Before                      Road After

- Consider bicycles, pedestrians, transit, parking, safety, and passenger vehicle operations

### Potential Advantages and Disadvantages

<p><u>Advantages</u></p> <ul style="list-style-type: none"> <li>Space for bicycles</li> <li>Traffic calming/reduced travel speeds</li> <li>Less traffic noise</li> <li>Crash reduction</li> </ul>	<p><u>Disadvantages</u></p> <ul style="list-style-type: none"> <li>Increased vehicular delay, notably side-street approaches</li> <li>More difficulty turning in and out of driveways</li> <li>Increased transit travel times</li> <li>Greater interference of double parked vehicles</li> </ul>
---	--

## Critical Success Factors

- Maintaining the existing curb lines
- Allowing sufficient opportunities for turning vehicles to enter and exit mainline traffic
- Maintain parking on both sides of Madison Avenue
- Strive to provide standard lane widths

## Existing Roadway Geometry



## Existing Conditions

- Corridor traffic volumes range from 13,400 to 14,900 vpd
- Travel speeds range from 15 to 18 miles per hour resulting in arterial LOS C/D conditions
- 481 crashes occurred on the corridor with about 55% of a type correctible with a road diet

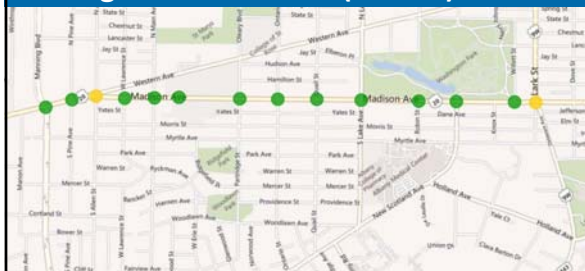


## Existing Conditions

- Bicycles share the road with vehicles.
- Intersection bike volumes range from 11 to 23 bikes per hour
- Pedestrian activity and conditions vary through the corridor with the highest volumes at Lark Street.
- Transit routes 63 and 114 served 28,500 riders in March of 2012



## Existing Level of Service (overall)



## Alternatives

Alternative 1: No road diet



Alternatives 2 & 3: Road diet along Western & Madison



Alternatives 4 & 5: Road diet along Madison



## Operational Comparison

Criteria	Null	Full Road Diet		Partial Road Diet	
	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5
Total Delay (hours)	132	369	337	171	146
Average Speed (mph)	13	6	7	11	12
Arterial LOS	E	F	F	E	E
Performance Index	174	416	376	217	184
Bike Benefit	No	Yes	Yes	Yes	Yes
Accident Benefit	No	Yes	Yes	Yes	Yes

## Existing & Alt 5 Level of Service (overall)

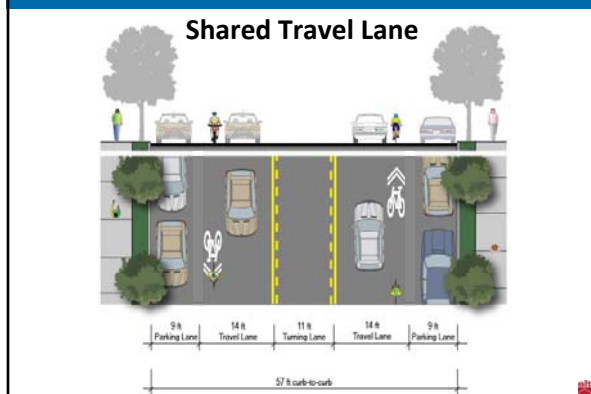
Existing



Alternative 5



## Roadway Layout: Alt 4 or 5 - Option A



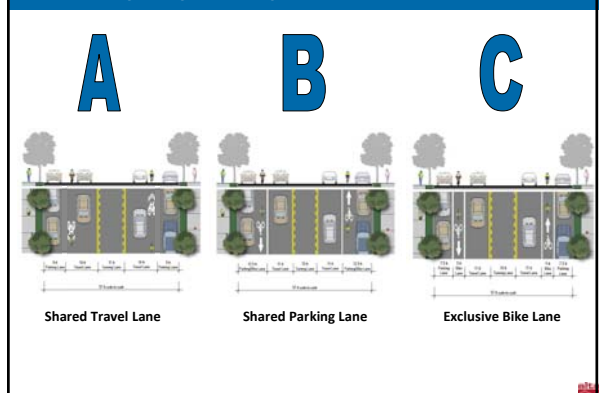
## Roadway Layout: Alt 4 or 5 - Option B



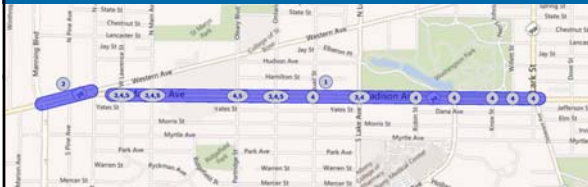
## Roadway Layout: Alt 4 or 5 - Option C



## Roadway Layout Options



## Conclusions and Draft Recommendations



1. Implement Road Diet on Madison Avenue
2. Maintain four (4) lanes on Western Avenue and install sharrow pavement markings
3. Upgrade traffic signal equipment
4. Install new communication equipment
5. Provide new vehicle detection

An illustration of a street scene showing a road with cars, a cyclist, and pedestrians. The scene is set between two trees, with a clear path for each mode of transport. The text "Questions or Comments?" is displayed in blue below the illustration.

Questions or Comments?

## Schedule / Next Steps

- ✓ Phase 1
  - ✓ Project Initiation
  - ✓ Existing Conditions
  - ✓ Stakeholder Input
- Phase 2
  - ✓ Alternatives Development
  - ✓ Analysis
  - ✓ Draft Report
  - ✓ Stakeholder Input
    - Public Information Meeting
    - Final Recommendations

An illustration of a street scene showing a road with cars, a cyclist, and pedestrians. The scene is set between two trees, with a clear path for each mode of transport. The text "Thank you" is displayed in blue below the illustration. At the bottom, there are logos for the City of Chicago, the Illinois State Police, and Creighton Manning.

Thank you





**Madison Avenue Traffic Study / Road Diet Feasibility Study**  
**Public Meeting**  
**Tuesday, April 16, 2013 at 11:00am & 6:30pm**  
**The College of Saint Rose**  
**Touhey Forum in the Lally School of Education**  
**Meeting Summary**

The City of Albany prepared a DRAFT traffic study that evaluated the feasibility of implementing a road diet along Madison Avenue from Lark Street to South Allen Street and along Western Avenue from South Allen Street to Manning Boulevard. Two identical meetings were held on April 16, 2013 to engage the general public, and to receive feedback on the study and the draft findings and recommendations. The meetings were announced by an email flyer and invitation. The sign-in sheets are attached.



The public meetings began with a welcome from Bill Trudeau and a brief technical presentation by Mark Sargent and Alanna Moran of Creighton Manning. The presentation included an overview of the project, review of previous meetings, and presentation of the draft findings and recommendations. A copy of the PowerPoint presentation is attached. At the conclusion of the presentation Mark Sargent and Alanna Moran facilitated a question/answer session.

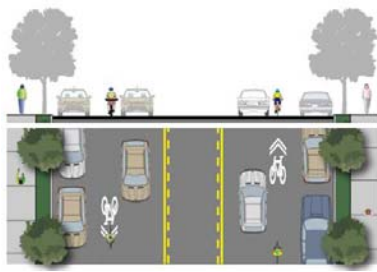
The study focuses on five basic alternatives to determine the feasibility of a road diet in the study area. Due to roadway width restrictions and the need to accommodate turning traffic, other alternatives were considered “not feasible” and dismissed prior to quantitative evaluation. The following alternatives were evaluated in detail:

- Alternative 1: Existing roadway configuration and planned signal improvements
- Alternative 2: 3-lane roadway through entire corridor without signal coordination
- Alternative 3: 3-lane roadway through entire corridor with signal coordination
- Alternative 4: 3-lane roadway along Madison Avenue without signal coordination
- Alternative 5: 3-lane roadway along Madison Avenue with signal coordination

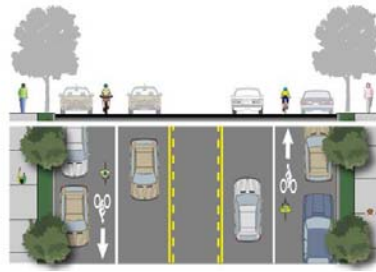
The detailed analysis shows that implementation of a road diet along the Madison Avenue (Alternatives 4 and 5) portion of the corridor is feasible. However, without signal coordination (Alternative 4) increased vehicle delays will be apparent. Including signal coordination in the project (Alternative 5) minimizes adverse impacts and brings vehicle delays closer to existing conditions. While Alternatives 4 and 5 are both feasible, Alternative 5 is preferred. Alternatives 2 and 3 (road diet extending onto Western Avenue) are not feasible due to the traffic delays that would result from a road diet in this section.

There are three general roadway layout options for a road diet on Madison Avenue:

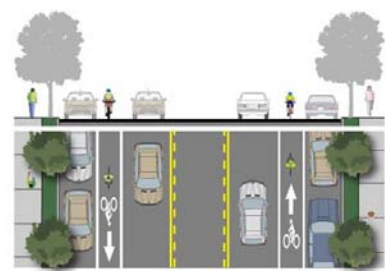
- Option A: Shared Travel Lane for bicycles and vehicles.
- Option B: Shared Parking Lane in which there is a wide parking lane for bicycles and parked vehicles.
- Option C: Exclusive Bike Lane in which vehicles, bicycles, and parked vehicles each have delineated space.



**Option A: Shared Travel Lane**



**Option B: Shared Parking Lane**



**Option C: Exclusive Bike Lane**

Although the preliminary evaluation indicates that all three of these options are feasible, Options B and C would require some concession on desirable lane widths (center turn lane should be 11 feet wide and the parking lanes should be 8 feet wide).

None of the three options meet all of the study goals, but all options provide improved overall safety and bicycle accommodations over the existing four-lane roadway. Option A is consistent with recent pavement marking projects throughout the City with the use of Sharrow to indicate that cyclists share the travel lane with motorized vehicles. Option B shifts the bicycle accommodation into a shared parking lane, separating the bicycles from the travel lane but placing them against parked vehicles. Option C provides for exclusive delineated bicycle lanes but again places bicyclists against parked vehicles.

General comments and questions received from meeting attendees are divided by topic and include the following:

- Pedestrians
  - How are pedestrian accommodations being improved?
- Cyclists
  - League of American Bicyclists would not teach people to ride in the door zone
  - Option A is the “safest”
  - Cyclists like Option A because it reduces potential for dooring
  - Commenter liked A or C
  - Option C would create a condition where new cyclists would use the road
  - Has one striping option been proven to be safer than other options?
  - If the project doesn’t include “protected” bike lanes then this is a missed opportunity
  - Was detection for bicycles considered?
- Transit
  - Has CDTA been involved in the study?
  - Were park and rides considered anywhere to encourage more transit use?
- Parking
  - There should be some markings to specifically show where parked cars should be so that they don’t take up more than their share of space
  - What about diagonal parking?
- Safety
  - If the road diet goes in, will there be an increase of accidents associated with parking vehicles?
  - Good flow would create less desire for people to run the red lights
  - Manning has definitely shown a traffic calming/speed reduction with the road diet
  - What’s to keep this from being used as 2 lanes? (Option A)
  - What happens if there are significant generators across the roadway from each other?
- Other Alternatives
  - Did you think about putting the bike lane next to the curb and having the parked cars as a buffer?
- General
  - Preference for Alternative 5. If the road diet is implemented then it should definitely include the signal timing/coordination updates.

- Commenter had no preference for A, B or C, but noted Alt 5 is only answer. Alt 4 not acceptable.
- Police department enforcement of speeds in the corridor is really important.
- What are the timetables and deadlines for funding and what would the funding source be?
- How does this compare to Clinton Avenue? Clinton Ave seems to have good door zone safety.
- Can anything be done at the Western/Madison/Allen intersection?
- How will the road diet work at the New Scotland Avenue intersection where there is a lot of traffic volume – Can an eastbound right turn lane be included on Madison at New Scotland?
- How will the transitions between the roadway geometries work? What will they look like?

The next step in the project is to finalize the draft report and recommendations for the feasibility study.

Madison Avenue Traffic Study / Road Diet Feasibility Study

Public Meeting

April 16, 2013

11:00 a.m.

Name	Representing	Phone	Email
Becky Puritz	Downtown Bicycle Works + Mohawk Hudson Cycling Club	607-287-1962	beckypuritz@gmail.com
Bill Phillips	New Albany Neighbors Assoc	518-527-1242	wjphillips99@gmail.com
John Major		518 356 1835	jmajor1@nycap.rr.com
DICK MELITA	RESIDENT	518.438-8304	RMELITA@NYCAP.RR.COM
Yvette James	Self / Student	518 462-6698	EYJAMES@aol.com
MIKE DIROLF	RESIDENT		mike@dirolf.com
Leif Engstrom	City Auditor's Office	518.434.5023	engstroml@earthlink.net
Sophia Abbasi	Kathy Sheehan	518-390-7012	sophia@sheehanforalbany.com
Leah Golby	Common Council	518-209-6444	leah.golby@gmail.com
Domwick Calabro	Common Council	518 859-5219	dcalabro@nycap.rr.com
Daniel Plaat	Occupy Albany - Self	518-396-6122	dplaat@yahoo.com

Madison Avenue Traffic Study / Road Diet Feasibility Study

Public Meeting

April 16, 2013

6:30 p.m.

Name	Representing	Phone	Email
Phil Hansen		482-9131	hansenpd@earthlink.net
Jack HINCHEN		489-2606	Jhinch@verizon.net
Gail Hinch		489-2606	
Duane Barker		527-5274	ddb0962@gmail.com
LORENZ WORDEN	Alb. Bike Coalition	489-0866	lorenzworden@verizon.net
VIRGINIA HAMMER	PHNA	438-0195	vhammer@gmail.com
JOHN VENDETTI	ALBANY BICYCLE COALITION NEW YORK BICYCLING CO.	225-4209	hardworkinjohn@aol.com
Alex Waite		518-257-6486	alexwaite@gmail.com
Jodi Smits Anderson	PINE HILLS AREA, NY <sup>Upstate</sup> USGB DRSNY	518-229-3215	greenerjsa@gmail.com
Erik Smits	Woodland Hill	518-229-3215	fienghost@gmail.com
MAARTEN SMITS	RESIDENT, PINE HILLS	518-229-3034	AUTHORMS@GMAIL.COM
VIRGINIA BARBER	RESIDENT, PINE HILLS	(518) 428-3741	VAB02@nycap.r.r.com
PAT DOYLE	Melrose Neighborhood Road	518-473-3786	pad6002@hotmail.com
L. Alpert		516-521-7008	alpert.Lauren@gmail.com
A. Smith	(NEW SCOTLAND/WOODLAWN + HELDENBERG N.A.) AREA RESIDENT	482-7030	_____

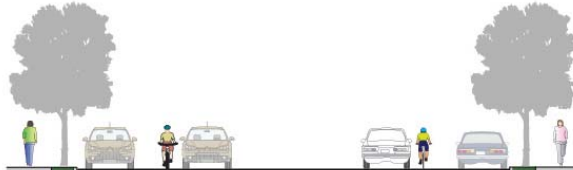
# Madison Avenue Traffic Study / Road Diet Feasibility Study

## Public Meeting

April 16, 2013



6:30 p.m.


Name	Representing	Phone	Email
Dan Shannon	Myself		danielshannon24@gmail.com
Rorena Bermejo	Albany citizen		lbermejo85@gmail.com
Dianne Hansen	myself		hansend@earthlink.net
JACKIE NEAL	myself		jneal76@yahoo.com
Mike Smith	myself		msmith@nyctd.com
MATT BROMIRSKI	N'HOOD REPRESENT		matt.bromirski@dot.ny.gov
Jennifer Clifford	Albany Citizen		jennyandscooter@gmail.com
Bert Schou	citizen		bert.090555@gmail.com
Gary Hebert	Citizen		GHebert11@YAHOO.COM
Athena V. Lord	citizen	482-3652	



## Madison Avenue Road Diet Feasibility Study

*Public Meeting  
April 16, 2013*



### Why are we here today?

- Present DRAFT Report findings
- Obtain input on recommendations




### Project Goals and Definition

- Evaluate the feasibility of a road diet on Madison Avenue




Road Before
Road After

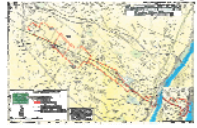
- Consider bicycles, pedestrians, transit, parking, safety, and passenger vehicle operations

### Project Phases

- Phase 1
  - Project Initiation
  - Existing Conditions
  - ✓ Stakeholder Input (July 11, 2012, August 10, 2012)
- Phase 2
  - Alternatives Development
  - Analysis
  - Draft Report
  - ✓ Stakeholder Input (February 28, 2013)
  - ✓ Public Information Meeting
  - Final Recommendations

### Stakeholder Input Summary

- Discussion centered on issues and alternatives
- Comments/questions were received on the following:
  - Pedestrians
  - Cyclists
  - Transit
  - Parking
  - Passenger vehicles
  - Safety
- Draft report and findings presented
  - A road diet is feasible on Madison Avenue
  - Support for road diet from stakeholders
  - Preference for the geometrical layout varied



### Potential Advantages and Disadvantages

<p><u>Advantages</u></p> <ul style="list-style-type: none"> <li>Space for bicycles</li> <li>Traffic calming/reduced travel speeds</li> <li>Less traffic noise</li> <li>Crash reduction</li> </ul>	<p><u>Disadvantages</u></p> <ul style="list-style-type: none"> <li>Increased vehicular delay, notably side-street approaches</li> <li>More difficulty turning in and out of driveways</li> <li>Increased transit travel times</li> <li>Greater interference of double parked vehicles</li> </ul>
---	--



## Critical Success Factors

- Maintaining the existing curb lines
- Allowing sufficient opportunities for turning vehicles to enter and exit mainline traffic
- Maintain parking on both sides of Madison Avenue
- Strive to provide standard lane widths

## Existing Roadway Geometry



## Existing Conditions

- Corridor traffic volumes range from 13,400 to 14,900 vpd
- Travel speeds range from 15 to 18 miles per hour resulting in arterial LOS C/D conditions
- 481 crashes occurred on the corridor with about 55% of a type correctible with a road diet

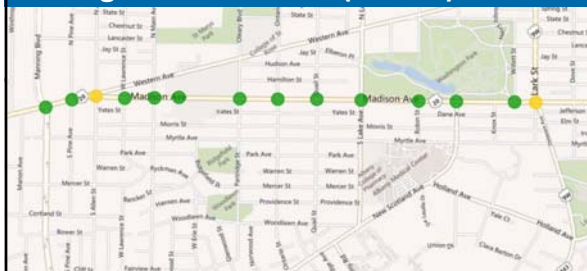


## Existing Conditions

- Bicycles share the road with vehicles.
- Intersection bike volumes range from 11 to 23 bikes per hour
- Pedestrian activity and conditions vary through the corridor with the highest volumes at Lark Street.
- Transit routes 63 and 114 served 28,500 riders in March of 2012



## Existing Level of Service (overall)



LOS C or better = GREEN  
LOS D = YELLOW

## Alternatives

Alternative 1: No road diet



Alternatives 2 & 3: Road diet along Western & Madison



Alternatives 4 & 5: Road diet along Madison



## Operational Comparison

Criteria	Null	Full Road Diet			Partial Road Diet	
	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	
Total Delay (hours)	132	369	337	171	146	
Average Speed (mph)	13	6	7	11	12	
Arterial LOS	E	F	F	E	E	
Performance Index	174	416	376	217	184	
Bike Benefit	No	Yes	Yes	Yes	Yes	
Accident Benefit	No	Yes	Yes	Yes	Yes	

## Existing & Alt 5 Level of Service (overall)

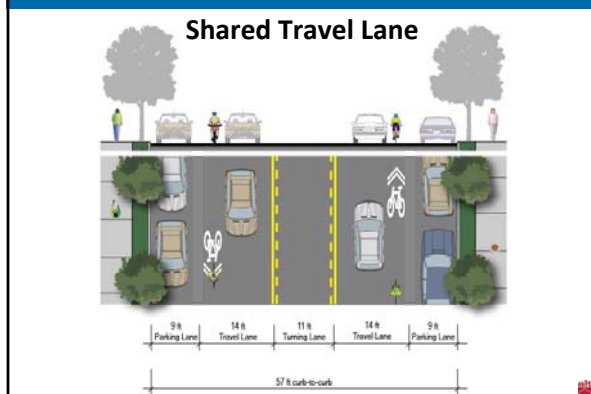
Existing



Alternative 5



## Roadway Layout: Alt 4 or 5 - Option A



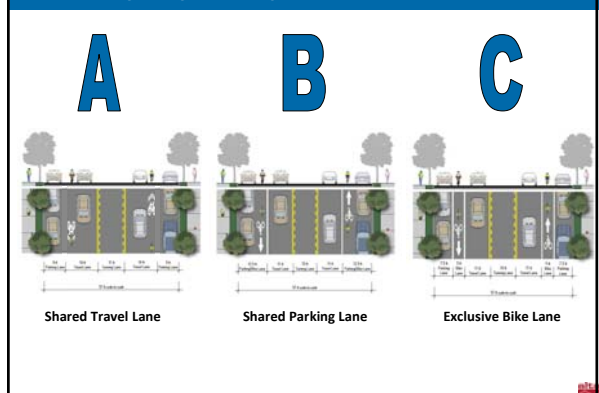
## Roadway Layout: Alt 4 or 5 - Option B



## Roadway Layout: Alt 4 or 5 - Option C



## Roadway Layout Options



## Conclusions and Draft Recommendations



1. Implement Road Diet on Madison Avenue
2. Maintain four (4) lanes on Western Avenue and install sharrow pavement markings
3. Upgrade traffic signal equipment
4. Install new communication equipment
5. Provide new vehicle detection

A cross-sectional illustration of a road. On the left, a person in a green vest stands near a tree. In the center, a car and a cyclist are on the road. On the right, another car and a person in a pink shirt stand near another tree. The road has a blue header above it.

## Questions or Comments?

A cross-sectional illustration of a road, identical to the one in the previous slide, showing a person in a green vest, a car, a cyclist, another car, and a person in a pink shirt, with trees on either side.

*Thank you*

The logos for Creighton University and Creighton Manning are displayed at the bottom of the slide.

**Madison Avenue Traffic Study / Road Diet Feasibility Study  
Record of Written Comments**

<b>No.</b>	<b>Date</b>	<b>Name</b>	<b>Topic</b>
1	4-15-2012	Leah Golby	Stakeholder committee member recommendations
2	5-4-2012	Jay Harold Jakovic	Opposition to road diet on Madison Avenue
3	7-9-2012	Leah Golby	Protected bike lanes
4	1-14-2013	Virginia Hammer	Project status, specifically public involvement
5	3-14-2013	Bert Schou	Education for pedestrians/cyclists
6	3-14-2013	Darren Scott	Bike lane between curb and parking lane
7	3-15-2013	Leslie Dykeman	Definition of road diet, install signals w/ turn lanes
8	3-24-2013	Rita Nolan	Prefer a shared travel lane
9	3-24-2013	Earl Belcher	Prefer a shared travel lane
10	3-25-2013	Jaime Reppert	Options provide inadequate bicycle accommodations
11	4-15-2013	Leah Golby	Existing transit conditions, delays to vehicles
12	4-16-2013	Unknown	Prefer option C, separate bike lane
13	4-16-2013	Pat Doyle	Questions about Western Ave and other projects
14	4-19-2013	Lorenz Worden (ABC)	Preference for Alternative 5 Option A (shared travel lane)

**Alanna Moran**

**From:** William Trudeau [wtrudeau@albany-ny.org]  
**nt:** Monday, April 16, 2012 4:34 PM  
**to:** Leah Golby  
**Cc:** Brendan J. Cox  
**Subject:** RE: Stakeholder Advisory Committee - Madison Avenue

Leah,

Thank you for the information. I have Creighton Manning working on data collection as a top priority item. I am working on space to hold a stakeholders meeting. I spoke with St. Rose this morning about a room for the meeting. They are checking and will let me know availability. I will keep you in the loop as this moves forward.

Bill

**William E. Trudeau Jr.**  
 Coordinator of Traffic Engineering  
 City of Albany  
 Traffic Engineering  
 10 N. Enterprise Drive  
 Albany, New York 12204  
 Phone (518) 434-5791  
 Fax (518) 434-4315

**From:** Leah Golby [mailto:leah.golby@gmail.com]  
**Sent:** Sunday, April 15, 2012 7:25 AM  
**To:** William Trudeau  
 Brendan J. Cox  
**Subject:** Stakeholder Advisory Committee - Madison Avenue



Dear Bill,

I think you made Virginia Hammer's week with the news of the contract award for Madison Avenue-- she was so thrilled that the contract has been awarded and she's been very impressed with Creighton Manning from the research that she's conducted.

The list of a Stakeholders Advisory Committee that the neighbors and I came up back when we started thinking about this is below. I have the feeling it may be more stakeholders than you were hoping for, but when I tried to come up with people who should be eliminated, I couldn't! I actually added Hudson Park Neighborhood Association and removed Center Square Neighborhood Association because Hudson Park is the NA that includes Madison Avenue -- Center Square is further north...we must have been mistaken when we came up with our original list.

FYI... my availability right now during the day on weekdays is limited at least through May. The earliest I could make a meeting is 4:30, and I'd really like to be able to be there!

#### Stakeholder Advisory Committee

- The College of St. Rose
- Albany Medical Center
- Columbia Development Corporation
- Price Chopper - Vice President William \_\_\_\_\_ (He is well-versed in traffic-related stuff, maybe you have worked with him -- we do have his name someplace, but need to look it up)
- UAlbany Transportation Department
- CDTA

4/26/2013

- Albany School District Transportation Dept.
- CC Members who represent 6th, 10th, 11th, 13th and 14th Wards
- Park South, Pine Hills, Washington Park, and Hudson Park Neighborhood Assns.
  - Clark Street BID
  - Albany Bicycle Coalition
- City of Albany FD, PD, Dept. of Planning and Development, and Dept of General Services.

--

Leah Golby  
10th Ward Council Member  
550 Myrtle Avenue  
Albany, NY 12208

Cell: 518.209-1244  
Home: 518.438-1244  
[leah.golby@gmail.com](mailto:leah.golby@gmail.com)  
Follow me on [Twitter](#)

2

**JAY HAROLD JAKOVIC**  
Attorney and Counselor at Law  
662 Madison Avenue  
Albany, New York 12208-3645

Telephone: (518) 465-6537  
Fax: (518) 465-6566

May 4, 2012

William Trudeau  
Albany City Coordinating  
Traffic Engineer  
10 North Enterprise Drive  
Albany, New York 12204

Re: Madison Avenue Traffic Calming

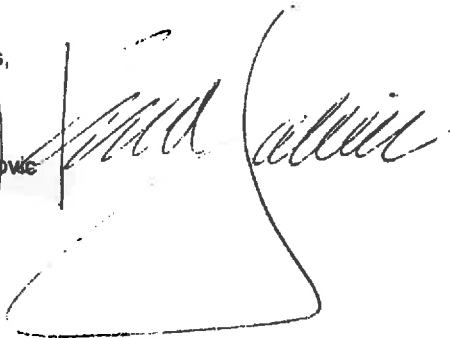
Dear Mr. Trudeau:

Pursuant to our conversation of today's date, this letter will transmit to you for forwarding to the firm conducting the feasibility study of reducing the lanes on Madison Avenue my letter of September 28, 2010 directed to Mayor Gerald Jennings. As you can see, the letter details my experiences of over 60 years living on Madison Avenue, 44 years of driving and my opinions about the lane reduction.

Thank you.

Very truly yours,

Jay Harold Jakovic  
JHJ/sbc  
Enc.





**JAY HAROLD JAKOVIC**  
Attorney and Counselor at Law  
662 Madison Avenue  
Albany, New York 12208-3645

Telephone: (518) 465-6537  
Fax: (518) 465-6566

September 28, 2010

Hon. Gerald D. Jennings  
Mayor of the City of Albany  
City Hall, Room 102  
24 Eagle Street  
Albany NY 12207

RE: Resolution of the Albany City Common Council supporting Traffic Calming on  
Madison Avenue. Resolution No. 96.92.10R

Dear Mayor Jennings:

This letter is written you in opposition to the so-called "Madison Avenue Traffic Calming Resolution" in Albany, New York, which I understand will narrow the carriage way in Madison Avenue by eliminating one lane of traffic in each direction. I have maintained a residence on Madison Avenue for nearly sixty years and an office there for nearly twenty-five. I have observed the traffic and the conditions on the street and based on my experience, I believe very strongly that the proposal is misguided and will not make the street safer, rather it will increase the risk of accidents and injuries to property and persons utilizing the road.

I have seen that most drivers use the inside two lanes to drive down the street to pass through the area. The outside two lanes tend to be occupied by busses and cars that pick up and discharge passengers and/or loads as well as by double-parked vehicles. Examples of vehicles that double park almost daily are busses, the postman, the UPS truck and FedEx truck. Private trash haulers, the City trash removal and recycling vehicles as well as the medical waste pick-up company double park weekly.

If traffic is reduced to one lane, the vehicles enumerated above will either cause traffic to come to a complete standstill or will cause drivers to divert into the common center turn lane where the risks of a head-on collision are increased exponentially. Furthermore, the second lane of traffic allows drivers entering the carriage way from private driveways to inch out into the lesser used and slower lane of traffic to see around parked cars. Without this second lane of traffic, the driver will be inching out into main flow of oncoming traffic. This problem cannot be treated lightly. Madison Avenue is a tightly parked street. I can tell you that cars park right up to my driveway on both its sides even though there a fire hydrant on the east side of my driveway and frequently the cars are packed so tight that I am unable to turn east

when exiting the driveway without crossing into the westbound lane, forcing me to go west and around two blocks (Morris Street is westbound only) when I intend to travel east. Also, I can tell you that when the vehicle parked next to my driveway has a sun screen in it, all I can see when exiting the driveway is a blank wall and when the vehicle is an SUV, as it frequently is, all I can see is a radiator grill until I enter the outside lane. Your plan will force me blind into oncoming traffic with no space for it to divert. Furthermore, one must not think that the single turning lane will be a satisfactory substitute for the two outside lanes. While cars traveling westbound can access my driveway from the turning lane located on the south side of the street, those traveling eastbound cannot. Eastbound vehicles accessing my driveway must straddle both the inside and the outside lanes because the cars are so closely parked to it. If the second lane of traffic is eliminated, this extra turning radius will be denied and there can be no diversion around vehicles turning into driveways on the same side as the flow of traffic. I must tell you that in the recent past, my requests for parking set back markers from my driveway have been refused by the Department of General Services.

Closely parked vehicles are a problem, but far worse is the blocked driveway. It is at least a monthly occurrence for me to find a car parked across my driveway or one parked in it to go to a building elsewhere on the block. Cars that park in the driveway never pull up to allow a car to park behind them; rather the offender parks so that another driver cannot pull in behind. The offender parks this way because the offender does not want to be blocked in. You should know that about once a month I find myself sitting in my car in Madison Avenue sounding the horn for somebody to move their vehicle from across my driveway or from out of it. My experience is that I will sit sometimes as long as 15 to 20 minutes while the offender takes groceries into a building on the block, comes out from a friend's apartment or gets his tennis equipment from the tennis courts. It is not unknown and it is not unusual for cars to be left in my driveway by others for hours at a time. I can see sitting in the center turn lane when approaching on the opposite side of the street, but where am I going to sit when I am on my own side? Do you expect me to block traffic or sit in the center turn lane and cut across traffic when access to my driveway is finally given? I am not parking elsewhere and walking, period; my octogenarian Mother cannot.

The outside two lanes on Madison Avenue also provide additional parking during snowstorms and their cleanup. I can remember back into the 1950's and from then to the present during every winter storm and its aftermath, some cars are left snowbound in the parking lane while other cars park inside them in the outside travel lanes until the cars in the parking lane are removed and the street is plowed again. If the outside lane is eliminated, parking, which during snowstorms is bad enough already, will be further reduced. In addition, the outside lane provides additional space for cars in winter because the plows cannot clear to the curb. Consider Morris Street where the carriageway shrinks demonstrably after repeated snowfalls because of snow banks at the curbs. The shrinkage is so bad that I do not use the Morris Street entrance to my carriage house; rather in winter, I use my mother's Madison Avenue driveway.

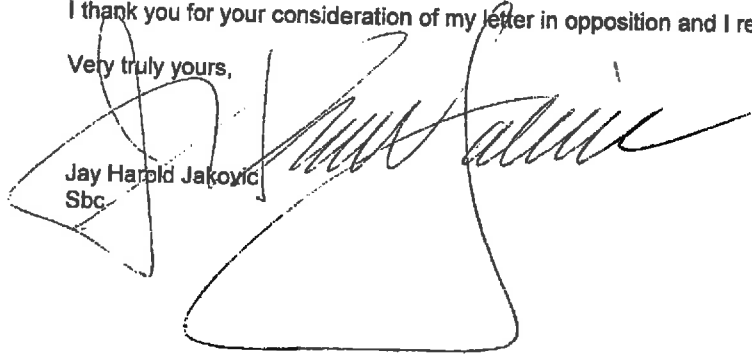
I submit that there is nothing appealing about the proposal to decrease the carriageway on Madison Avenue; that it will not increase safety, rather it will increase the inconvenience and hazards in using the road. In short, the proposal is misguided. Please remember that

Madison Avenue is not some paved over rural cow path. It is Route 20, the Boston to Buffalo Road which Western Avenue east of South Allen Street is not.

I thank you for your consideration of my letter in opposition and I remain,

Very truly yours,

Jay Harold Jakovic  
Sbc

A large, stylized handwritten signature in black ink, appearing to read 'Jay Harold Jakovic', is written over the typed name and extends across the right side of the page.

**Alanna Moran**

**From:** Jeffrey Pangburn  
**Sent:** Wednesday, July 11, 2012 12:42 PM  
**To:** Mark Sargent; Alanna Moran  
**Subject:** FW: fyi -- some thoughts on protected bike lanes

**Jeff Pangburn, P.E.**  
*Senior Project Manager*

**From:** William Trudeau [mailto:wtrudeau@albany-ny.org]  
**Sent:** Monday, July 09, 2012 1:53 PM  
**To:** Jeffrey Pangburn  
**Subject:** Fwd: fyi -- some thoughts on protected bike lanes

Just looked at the email below when I got outside. I intend to talk with Councilmember Golby about her comment.

Sent from my Verizon Wireless 4G LTE smartphone

----- Original message -----

**Subject:** fyi -- some thoughts on protected bike lanes  
**From:** Leah Golby  
**To:** William Trudeau  
**CC:** "Brendan J. Cox", Kathleen Bronson

3

Hi Bill,

From a couple of casual conversations that I've had with some of the individual stakeholders of the Madison Avenue road diet study, I wanted to be sure that you know before our meeting Wednesday that there is a very strong interest from a couple of the people I've spoke with that the Madison Ave project look very seriously at "protected bike lanes."

Personally, I would welcome protected bike lanes in Albany because I think it's the next step to getting more people to use bicycles in the city. I have so many conversations with people who are curious about bicycling or who want to take up bicycling, but they are terrified of riding along with traffic.

Below are a few articles about protected bike lane projects and proposals in other parts of the country.

Best,  
Leah

Bikes Belong - Green Lane (Protected Bike Lane) project: <http://www.bikesbelong.org/news/bikes-belong-launches-project-for-protected-bikeways-green-lane-project/>

Chicago and other cities tracking usage of protected bike lanes "Green lanes" project: <http://www.suntimes.com/news/transportation/12891660-418/chicago-among-six-cities-named-models-for-dedicated-bike-lanes.html>

4/26/2013

-- Austin story on Green Lanes project -- states, "In Washington, D.C., bicycle volume tripled after protected lanes were installed. In Portland, Ore., more than 70 percent of survey respondents said bicycling is easier and safer with these dedicated lanes, while motorists said the facilities did not make driving any slower or less convenient." Story re: <http://www.bizjournals.com/austin/news/2012/06/01/austin-getting-more-protected-bike-lanes.html>

**Of course, any project is never without dissent/ controversy:**

-- recent story on Lincoln, NE considering protected lanes: [http://journalstar.com/news/local/govt-and-politics/council-hears-conflicting-views-on-protected-bike-lane/article\\_aab9510f-9227-5d41-b488-45273fe37805.html](http://journalstar.com/news/local/govt-and-politics/council-hears-conflicting-views-on-protected-bike-lane/article_aab9510f-9227-5d41-b488-45273fe37805.html)

--

Leah  
cell: 518 209-1244

Have **you** "Liked" Pat on [Facebook](#) yet?  
[Click here](#) to donate now and help to get Pat's message out to voters!

Friends of Patricia Fahy  
PO Box 8282  
Albany, NY 12208

funding for the project.

I would like to clarify the issue of the funding for the feasibility study itself. We did not utilize any of the funds that were secured from private funders. The cost of the feasibility study falls completely under the City's 2012 capital projects budget. I applaud everyone who secured the private funding and I have no doubt we will need that to continue to move forward.

I hope this clarifies everything. I once again apologize for any miscommunication. I look forward to seeing everyone at the stakeholders meeting.

Thanks,  
Brendan

**From:** Virginia Hammer [mailto:vhammer@gmail.com]

**Sent:** Monday, January 14, 2013 4:57 PM

**To:** Brendan J. Cox

**Cc:** William Trudeau; Leah Golby; Todd Hunsinger; Leif Engstrom; Richard Conti; Carolyn McLaughlin

**Subject:** Madison Avenue Traffic Calming Feasibility Study

4

Dear Asst. Chief Cox,

I am writing to inquire about the status of the Madison Avenue Traffic Calming Feasibility Study. According to the contract with the consultant, the following was agreed to:

- a. Periodic stakeholder representatives meetings to be held during the project timeline.
- b. Contractor will "schedule, attend, and conduct two public informational meetings. One meeting at the beginning of the project and one meeting at a later period in the progress of the project".
- c. Term of the Agreement: "This Agreement shall commence on April 1, 2012 and terminate on October 31, 2012".

Please let me know:

- a. Why there was only one stakeholder representative meeting held?
- b. Why were no public informational meetings held?
- c. Assuming that the deliverables met the October 31, 2012 deadline, why is the study still not public, 90 days after it was delivered to the city.
- d. Where is the study, and when will it be available?

Just a reminder, that this study was supported not only by taxpayer funds, but also by the following organizations:

College of St. Rose

Price Chopper

Columbia Development Corp.

Albany Medical Center

CANA

As you know, the Albany Common Council passed a resolution in support of this study. I am sure that they, along with all the other taxpayers and neighborhood associations who favor it are anxiously awaiting the consultants' recommendations. Hope to hear from you soon.

--

Virginia Hammer

[VHammer@gmail.com](mailto:VHammer@gmail.com)

52 S. Allen St., Albany, NY 12208

518-438-0195

..

4/26/2013

# Mark Sargent

**From:** William Trudeau [wtrudeau@albany-ny.org]  
**S** Friday, March 15, 2013 3:50 PM  
**To:** Mark Sargent; Jeffrey Pangburn  
**Subject:** FW: Madison Road Diet Public Meeting 3/25/13

Mark & Jeff,

See Bert Schou's comment below regarding the pedestrian in the image on the flyer. We can talk and should have a response for when Bert brings this up. No big deal for me. I will also speak with Bert when I see him.

Bill

**William E. Trudeau Jr.**  
 Coordinator of Traffic Engineering  
 City of Albany  
 Traffic Engineering  
 10 N. Enterprise Drive  
 Albany, New York 12204  
 Phone (518) 434-5791  
 Fax (518) 434-4315

---

**From:** Kate Lawrence [mailto:LawrenceK@ci.albany.ny.us]  
**Sent:** Friday, March 15, 2013 10:48 AM  
**To:** William Trudeau  
**Subject:** FW: Madison Road Diet Public Meeting 3/25/13

Hi Bill,

Here is a relevant comment from Bert Schou regarding the cover image for the Road Diet report.

Best,

Kate Lawrence, Planner  
 Department of Development and Planning  
 City of Albany  
 21 Lodge Street, Albany, NY 12207  
 P: (518) 434-2532 x 17  
 F: (518) 434-9846  
 E: [lawrencek@ci.albany.ny.us](mailto:lawrencek@ci.albany.ny.us)




---

**From:** Bert [mailto:bert.090355@gmail.com]  
**Sent:** Thursday, March 14, 2013 3:27 PM  
**To:** Kate Lawrence  
**Subject:** Re: Madison Road Diet Public Meeting 3/25/13

5

PS Did you notice the woman on the cover of the report crossing Madison has a cell phone to her ear? Education is also key for whatever improvements are made and I see way to many pedestrians and drivers using phones when they should be paying attention to the road/traffic. On Thu, Mar 14, 2013 at 1:13 PM, Kate Lawrence <[LawrenceK@ci.albany.ny.us](mailto:LawrenceK@ci.albany.ny.us)> wrote:

4/15/2013



Dear all,

**On March 25, 2013** there will be two public meetings to discuss the findings of the Madison Avenue Traffic Study/Road Diet Feasibility Study. There will be a meeting at 11:00 AM and another at 6:30 PM. They will be held at the Touhey Forum in the Lally School of Education at the College of Saint Rose, 1009 Madison Avenue, Albany, NY. The content is the same for both meeting times, so please plan on attending only one.

As you may know, the City of Albany has prepared a draft traffic study that evaluates the feasibility of implementing a road diet along Madison Avenue from Lark Street to South Allen Street and along Western Avenue from South Allen Street to Manning Boulevard. Public comments are being solicited, and you are invited to join the City's study team at either meeting time to hear an overview of the study and to provide your input on the draft findings.

Attached please find a copy of the meeting flyer, as well as a copy of the draft report and a document outlining the study recommendations and road striping options.

If you have any questions, please contact Bill Trudeau, Coordinator of Traffic Engineering, at (518) 434-5791 or MadisonAveStudy@albany-ny.org

Best,

Kate Lawrence, Planner  
Department of Development and Planning  
City of Albany  
21 Lodge Street, Albany, NY 12207  
P: (518) 434-2532 x 17  
F: (518) 434-9846  
E: lawrencek@ci.albany.ny.us



4/15/2013

**Mark Sargent**

**From:** William Trudeau [wtrudeau@albany-ny.org]  
**Sent:** Friday, March 15, 2013 3:54 PM  
**To:** Mark Sargent; Jeffrey Pangburn  
**Subject:** FW: Madison Road Diet Comments  
**Attachments:** 201303141828.pdf

Comments are coming in fast and furious. As we have been doing , just keep these in the file.

Have a good weekend.

Bill

**William E. Trudeau Jr.**  
Coordinator of Traffic Engineering  
City of Albany  
Traffic Engineering  
10 N. Enterprise Drive  
Albany, New York 12204  
Phone (518) 434-5791  
Fax (518) 434-4315

---

**From:** Kate Lawrence [mailto:LawrenceK@ci.albany.ny.us]  
**Sent:** Friday, March 15, 2013 9:24 AM  
**To:** William Trudeau  
**Subject:** Madison Road Diet Comments

H.

Here are some comments (and an attached diagram) from Darren Scott at Albany Housing Authority.

Best,

Kate Lawrence, Planner  
Department of Development and Planning  
City of Albany  
21 Lodge Street, Albany, NY 12207  
P: (518) 434-2532 x 17  
F: (518) 434-9846  
E: [lawrencek@ci.albany.ny.us](mailto:lawrencek@ci.albany.ny.us)



6

---

**From:** Scott, Darren [mailto:DScott@albanyhousing.org]  
**Sent:** Thursday, March 14, 2013 6:41 PM  
**To:** Kate Lawrence  
**Subject:** FW: Madison Road Diet Public Meeting 3/25/13

Hi Kate – could you consider the attached lane configuration? The parked cars would buffer the cyclists from the moving traffic. I've seen it work in Manhattan to good effect.

Thanks.

Darren J. Scott, AICP

4/15/2013



**Albany Housing Authority**  
200 South Pearl Street  
Albany, NY 12202  
Phone: (518) 641-7536  
Fax: (518) 641-7545  
E-mail: [dscott@albanyhousing.org](mailto:dscott@albanyhousing.org)

---

**From:** JOANN MORTON [<mailto:ba0jbm@hotmail.com>]  
**Sent:** Thursday, March 14, 2013 5:42 PM  
**Subject:** FW: Madison Road Diet Public Meeting 3/25/13

Best Regards

JoAnn

---

**From:** [LawrenceK@ci.albany.ny.us](mailto:LawrenceK@ci.albany.ny.us)  
**Subject:** Madison Road Diet Public Meeting 3/25/13  
**Date:** Thu, 14 Mar 2013 17:13:33 +0000

Dear all,

**On March 25, 2013** there will be two public meetings to discuss the findings of the Madison Avenue Traffic Study/Road Diet Feasibility Study. There will be a meeting at 11:00 AM and another at 6:30 PM. They will be held at the Touhey Forum in the Lally School of Education at the College of Saint Rose, 1009 Madison Avenue, Albany, NY. The content is the same for both meeting times, so please plan on attending only one.

As you may know, the City of Albany has prepared a draft traffic study that evaluates the feasibility of implementing a road diet along Madison Avenue from Lark Street to South Allen Street and along Western Avenue from South Allen Street to Manning Boulevard. Public comments are being solicited, and you are invited to join the City's study team at either meeting time to hear an overview of the study and to provide your input on the draft findings.

Attached please find a copy of the meeting flyer, as well as a copy of the draft report and a document outlining the study's recommendations and road striping options.

If you have any questions, please contact Bill Trudeau, Coordinator of Traffic Engineering, at (518) 434-5791 or [MadisonAveStudy@albany-ny.org](mailto:MadisonAveStudy@albany-ny.org)

Best,

Kate Lawrence, Planner  
Department of Development and Planning  
City of Albany  
21 Lodge Street, Albany, NY 12207  
P: (518) 434-2532 x 17

4/15/2013

F: (518) 434-9846

E: [lawrencek@ci.albany.ny.us](mailto:lawrencek@ci.albany.ny.us)



---

**Confidentiality Notice:** This e-mail transmission is intended only for the individual or entity named in the email address and may contain confidential or legally privileged information that is exempt from disclosure under applicable law. If you are not the intended recipient or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any disclosure, dissemination, copying, distribution or reliance upon the contents of this e-mail communication is strictly prohibited. If you have received this e-mail transmission in error, please reply to the sender, so that the Albany Housing Authority can arrange for proper delivery, and delete the message from your system. Thank you.

---

4/15/2013

SIDEWALK



BIKE



PARK



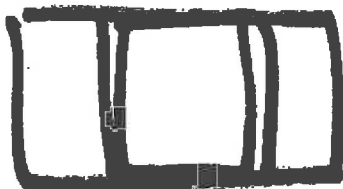
DRIVE



CHANGE



DRIVE



PARK



BIKE



SIDEWALK

**Mark Sargent**

**From:** William Trudeau [wtrudeau@albany-ny.org]  
**Sent:** Friday, March 15, 2013 4:50 PM  
**To:** Jeffrey Pangburn; Mark Sargent  
**Subject:** FW: ROAD DIET?

And they just don't stop.....

We can talk next week about these by phone and how we should/if we should respond.

Bill

**William E. Trudeau Jr.**  
Coordinator of Traffic Engineering  
City of Albany  
Traffic Engineering  
10 N. Enterprise Drive  
Albany, New York 12204  
Phone (518) 434-5791  
Fax (518) 434-4315

**From:** Kate Lawrence [mailto:LawrenceK@ci.albany.ny.us]  
**Sent:** Friday, March 15, 2013 4:42 PM  
**To:** William Trudeau  
**Subject:** FW: ROAD DIET?

Kate Lawrence, Planner  
Department of Development and Planning  
City of Albany  
21 Lodge Street, Albany, NY 12207  
P: (518) 434-2532 x 17  
F: (518) 434-9846  
E: [lawrencek@ci.albany.ny.us](mailto:lawrencek@ci.albany.ny.us)



**From:** leslie dykeman [mailto:ledykeman@yahoo.com]  
**Sent:** Friday, March 15, 2013 4:39 PM  
**To:** Kate Lawrence  
**Subject:** ROAD DIET?



to those of us in the non planning/ non transportation, non engineering community - the term ROAD DIET is not clear

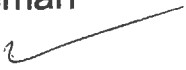
the brochures are well designed and complete with regards to information b' ROAD DIET is not a household term.

I happen to know what you actually want to do (make a middle lane that will have two arrows to use when you want to turn into a sidestreet or a

driveway) and I do agree with that!

good luck and hope you install lights with left turn signals too.

Leslie dykeman





**Mark Sargent**

**From:** William Trudeau [wtrudeau@albany-ny.org]  
**Sent:** Monday, April 15, 2013 11:01 AM  
**To:** Mark Sargent; Jeffrey Pangburn  
**Subject:** FW: Madison Avenue Traffic Calming Study

Here is another one.

**William E. Trudeau Jr.**  
Coordinator of Traffic Engineering  
City of Albany  
Traffic Engineering  
10 N. Enterprise Drive  
Albany, New York 12204  
Phone (518) 434-5791  
Fax (518) 434-4315

---

**From:** Rita Nolan [ritamnolan@yahoo.com]  
**Sent:** Sunday, March 24, 2013 3:46 PM  
**To:** Madison Ave. Study  
**Subject:** Madison Avenue Traffic Calming Study

Dear All,

I am so glad that this study will finally be implemented.

As a cyclist, I believe that the safest choice for bikes is usually a dedicated lane but I don't think that there is the space for that on Madison Avenue. So in this situation, I would prefer a Shared Lane.

I wish I could be at the meeting.

Rita Nolan

8  
Prefer shared lane.

**Mark Sargent**

**From:** William Trudeau [wtrudeau@albany-ny.org]  
**Sent:** Monday, April 15, 2013 11:00 AM  
**To:** Mark Sargent; Jeffrey Pangburn  
**Subject:** FW: [Albany Bicycle Coalition] Your Thoughts on Madison Avenue Traffic Calming Items from the Madison Ave Study email account.

**William E. Trudeau Jr.**  
Coordinator of Traffic Engineering  
City of Albany  
Traffic Engineering  
10 N. Enterprise Drive  
Albany, New York 12204  
Phone (518) 434-5791  
Fax (518) 434-4315

**From:** Earls1b [earls1b@aol.com]  
**Sent:** Sunday, March 24, 2013 3:42 PM  
**To:** Madison Ave. Study  
**Subject:** [Albany Bicycle Coalition] Your Thoughts on Madison Avenue Traffic Calming

Handwritten scribbles consisting of several overlapping loops, with a circled letter 'a' below them.

Lorenz,

Sorry I won't be able to make the meetings tomorrow, I will be in Syracuse all day.

I'm choosing **A – Shared TRAVEL Lane** (i.e., “sharrows” as on Western Ave. and elsewhere in the city).

Sincerely,  
Earl Belcher

**Mark Sargent**

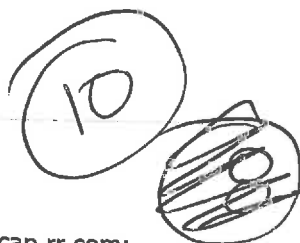
**From:** William Trudeau [wtrudeau@albany-ny.org]  
**Sent:** Monday, March 25, 2013 2:42 PM  
**To:** Jeffrey Pangburn; Mark Sargent  
**Subject:** FW: Madison Avenue Road Diet Report

Some light reading below from an individual who has all of our Madison Ave troubles solved.

Enjoy,

Bill

**William E. Trudeau Jr.**  
Coordinator of Traffic Engineering  
City of Albany  
Traffic Engineering  
10 N. Enterprise Drive  
Albany, New York 12204  
Phone (518) 434-5791  
Fax (518) 434-4315



**From:** Jaime Reppert [mailto:[jaime.reppert@gmail.com](mailto:jaime.reppert@gmail.com)]  
**Sent:** Monday, March 25, 2013 1:56 PM  
**To:** [weiss.bee@mindspring.com](mailto:weiss.bee@mindspring.com)  
**Cc:** Kate Lawrence; [Lorenzworden@verizon.net](mailto:Lorenzworden@verizon.net); [savageanne@gmail.com](mailto:savageanne@gmail.com); [cgaliva1@nycap.rr.com](mailto:cgaliva1@nycap.rr.com); [vhammer@gmail.com](mailto:vhammer@gmail.com); [stoneman@nycap.rr.com](mailto:stoneman@nycap.rr.com)  
**Subject:** Madison Avenue Road Diet Report

The following message by me was composed after reading the report forwarded by LWeiss from a message she received from Kate Lawrence (see email thread below). Thanks for sending it ladies!

Jaime

The options presented are slight variations on one suboptimal alternative. The options are not significantly different from one another. Without adequate justification, it appears that this study has discarded the most viable alternatives. The center turning lane gives too much primacy to infrequent turning movements. It will make Madison Avenue look and function *more* as a highway than the existing four-lane configuration does. The center of the street is reserved for automobiles only. Therefore the narrowing proposed with a center lane:

- does not achieve a traffic calming effect. Instead it encourages automobile speed with the expectation of free flow bypassing turning vehicles. The faster speeds discourage bicycle use, thus subverting efforts to accommodate bike riders.
- does not narrow the street enough to provide easy pedestrian crossing.
- precludes the opportunity to increase on-street parking, and further reduce traffic speeds, by using angled parking stalls that could be achieved if the road were narrowed to two lanes only with no center lane.

4/15/2013

- scrunches bicycle lanes into inferior width afterthoughts rather than providing for a safe barrier-separated bike lane.
- adds new paint markings and signs for the center lane that create a highway feel like Western Avenue west of Albany
- misses opportunities for new plantings, pedestrian refuges, and reduced traffic control signage and lane markings that could transform Madison Avenue from a highway to a neighborhood street

**Why not consider getting rid of the center lane and make Madison Avenue two lanes only** for automobiles? That will slow traffic slightly by creating minor turning movement interruptions in the flow. Two lanes with no center lane are easy for pedestrians to cross, even without slowed speed limits. **Lower the speed limit to 15 mph** and minor interruptions of automobile traffic flow will be virtually non-existent because turning movements are easily executed using speeds at or near the posted speed limit and drivers can anticipate and react better. So cars can and will follow more closely without incident. This increases the road capacity so that greater volumes of vehicles can be accommodated than are provided for in the "options" that each require a center turning lane. The turning lane options have less capacity because they support faster speeds of 30 mph+ in the through travel lanes, therefore increasing the following distance for vehicles and reducing the volume of vehicles that can be accommodated in the same linear distance of roadway. The higher speeds in the through lanes that are encouraged by the center turning lane also increase hazards for bicyclers, and jaywalking pedestrians, which discourages mixed travel modes. The center turn lane introduces new midblock head-on collision hazards which are otherwise offset in a two lane alternative..

If the folks controlling the Madison Road Diet project outcomes have eliminated the two lane narrowing alternatives with no center turning lane because they believe that two lanes along with reduced posted speed limits will not work, it can be easily proved or disproved by using traffic control cones, barrels, or sawhorse barriers to temporarily create two lanes with no center turning lane. Use the opportunity for direct observation of live real-time conditions for two-lane-only traffic, with posted speed limits of 15 mph. This trial may help to give insights regarding expected or novel driving behaviors during peak traffic volumes.

Compare with Western Avenue in the same neighborhood, where there are no significant delays from turns on this two-lane street or lower Madison Avenue east of Lark Street where there are also no *significant* delays on the two-lane street, even during rush hour.

Manning Blvd between Western and Washington suffered the same missed-opportunity fate by creating a useless center lane instead of really narrowing the street to two lanes and taking that center space away from automobiles. Autos are encouraged to drive faster instead of using speeds appropriate to the residential neighborhood, and the road space in the center turning lane is almost completely unutilized.

**From:** Kate Lawrence [<mailto:LawrenceK@ci.albany.ny.us>]  
**Sent:** Tuesday, March 19, 2013 11:30 AM  
**Subject:** Change of Date - Madison Road Diet Public Meeting 4/16/13

Dear all,

Due to a conflict with the Passover holiday, the public meetings on the Madison Avenue Traffic Study/Road Diet Feasibility Study have been **rescheduled to Tuesday, April 16, 2013**. There will be two public meetings; one at 11:00 AM and another at 6:30 PM. They will be held at the Touhey Forum in the Lally School of Education at the College of Saint Rose, 1009 Madison Avenue, Albany, NY. The content is the same for both meeting times, so please plan on attending only one.

Attached please find a copy of the new meeting flyer, as well as a copy of the draft report and a document outlining the study's recommendations and road striping options.

**If you have any questions, please contact Bill Trudeau, Coordinator of Traffic Engineering, at (518) 434-5791 or**

4/15/2013

[MadisonAveStudy@albany-ny.org](mailto:MadisonAveStudy@albany-ny.org)

Best,

Kate Lawrence, Planner  
Department of Development and Planning  
City of Albany  
21 Lodge Street, Albany, NY 12207

P:  [\(518\) 434-2532](tel:(518)434-2532) x 17

F:  [\(518\) 434-9846](tel:(518)434-9846)

E: [lawrencek@ci.albany.ny.us](mailto:lawrencek@ci.albany.ny.us)



Madison Recc & Options Poster\_2.28.13.pdf

Madison DRAFT Report 2.15.13 .pdf

4.16.13 Madison Public Mtg flyer.pdf

**Mark Sargent**

**From:** William Trudeau [wtrudeau@albany-ny.org]  
**Sent:** Monday, March 18, 2013 10:45 AM  
**To:** Jeffrey Pangburn  
**Subject:** FW: ON PASSOVER!!!???? Madison Road Diet Public Meeting  
FYI

**From:** Kate Lawrence [mailto:LawrenceK@ci.albany.ny.us]  
**Sent:** Monday, March 18, 2013 8:53 AM  
**To:** L. E. Weiss  
**Cc:** Virginia Hammer; William Trudeau  
**Subject:** RE: ON PASSOVER!!!???? Madison Road Diet Public Meeting

Dear Ms. Weiss,

I am forwarding your comments on the meeting date to Bill Trudeau, Coordinator of Traffic Engineering for the City of Albany, who is the contact for this project.

Best,

Kate Lawrence, Planner  
Department of Development and Planning  
City of Albany  
21 Lodge Street, Albany, NY 12207  
P: (518) 434-2532 x 17  
F: (518) 434-9846  
E: [lawrencek@ci.albany.ny.us](mailto:lawrencek@ci.albany.ny.us)



**From:** L. E. Weiss [mailto:weiss.bee@mindspring.com]  
**Sent:** Friday, March 15, 2013 6:08 PM  
**To:** Kate Lawrence  
**Cc:** Virginia Hammer  
**Subject:** ON PASSOVER!!!???? Madison Road Diet Public Meeting

I'm sorry to be rude, but I absolutely cannot believe my eyes when I see the date of this long-awaited public meeting. March 25th is the first night of Passover and it is outrageous to schedule any public business that day--unless, of course, you schedule a second session for the morning of Easter Sunday. Yes, you've scheduled a session during the day, but those who work will likely not be able to attend, and those who have taken the day off in order to prepare for Seder will not be attending. I am tired of conferences and workshops and important meetings being scheduled in ignorance of major Jewish religious holidays. Please take note and reschedule this session.  
Lorraine Weiss

**Mark Sargent**

**From:** Mark Sargent  
**Sent:** Monday, April 15, 2013 3:34 PM  
**To:** 'William Trudeau'  
**Cc:** Jeffrey Pangburn  
**Subject:** FW: Madison Traffic Calming questions/ feedback  
Bill – See if you agree with these responses for Leah.

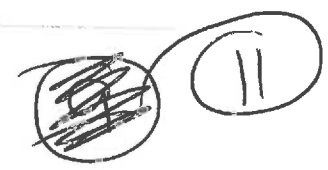
**From:** William Trudeau [mailto:wtrudeau@albany-ny.org]  
**Sent:** Monday, April 15, 2013 10:59 AM  
**To:** Mark Sargent; Jeffrey Pangburn  
**Subject:** FW: Madison Traffic Calming questions/ feedback

I need to respond to Leah today. Give me a call when you have time to formulate a response that we all agree with.

Bill

**William E. Trudeau Jr.**  
Coordinator of Traffic Engineering  
City of Albany  
Traffic Engineering  
10 N. Enterprise Drive  
Albany, New York 12204  
Phone (518) 434-5791  
Fax (518) 434-4315

**From:** Leah Golby [mailto:leah.golby@gmail.com]  
**Sent:** Monday, April 15, 2013 8:40 AM  
**To:** William Trudeau  
**Cc:** Brendan J. Cox  
**Subject:** Madison Traffic Calming questions/ feedback



Hi Bill,

Here are some questions/ feedback that I've been meaning to ask the consultants about the study.

1. Feedback to Alta Planning: In their memo dated July 6, 2012, they state in 1.3 that there are several new bus stops with shelters, signage, bike racks and good access. I walk that strip of Madison regularly, and the only shelter that I'm aware of is one at the westbound intersection at Washington Park/ New Scotland Ave. I'm pretty sure there are no other shelters (or am I wrong?). Access is variable -- and it is rare that there is bike parking at any of the Madison Ave bus stops, if there is any at all. Although Alta did a field walk, they did not do a detailed inventory of all existing assets in the corridors. Their summary appears overly generalized in the report.

2. I recall during the stakeholders meeting that one of the drawbacks of implementing traffic calming would be longer wait times for motorists from side streets and driveways. Since this will impact virtually all 10th ward residents and many other folks using our roads, could they please elaborate on this drawback, specifically:

- From a driveway during peak traffic time, what would the estimated wait time be? (are there ways to help address this via signal coordination at peak times). This is difficult to estimate because wait times will be different at different locations and at different times of

4/15/2013



day. With all of the through traffic volume in one lane versus two, it is expected that delays will marginally increase.

- During peak times, what is the percent of cars exiting driveways? Unknown. The study did not count individual driveways. Residential driveways have approximately 65 percent entering and 35 percent exiting during the PM peak hour.
- In terms of intersections, since every intersection in the corridor is signaled, wouldn't this only impact those making "right on red" turns? Not necessarily as the traffic signals will be timed differently to provide more green time to Madison Avenue, which will increase delays on side streets for all cars, not just right-turns-on-red.
- Figuring in signaling optimization, what would the estimated wait time be for someone trying to turn from an intersection onto Madison Avenue? (An explanation with multiple scenarios would be welcome...for instance: likelihood of making a safe right on red, wait time for light, anything that I'm forgetting...) There is a lot of variability here, but we are estimating approximately 16 or 17 seconds of additional side street delay on average. So if someone waits about 24 seconds today, they will wait about 40 seconds after the road diet project.

I think that's it (for now!)... I will see you tomorrow for the morning meeting, since for the evening meeting, I will be attending the Community Policing forum.

As always - thanks for your help!

Best,

Leah

--  
 Leah Golby  
 10<sup>th</sup> Ward Council Member  
 550 Myrtle Avenue  
 Albany, NY 12208

Cell: 518.209-1244  
 Home: 518.438-1244  
[leah.golby@gmail.com](mailto:leah.golby@gmail.com)  
 Follow me on [Twitter](#)  
 "Like" me on [Facebook](#)

**Alanna Moran**

---

**From:** William Trudeau [wtrudeau@albany-ny.org]  
**nt:** Tuesday, April 16, 2013 3:55 PM  
**To:** Mark Sargent; Jeffrey Pangburn  
**Subject:** FW: forwarding a comment from someone who can't make the meeting  
FYI

**William E. Trudeau Jr.**  
Coordinator of Traffic Engineering  
City of Albany  
Traffic Engineering  
10 N. Enterprise Drive  
Albany, New York 12204  
Phone (518) 434-5791  
Fax (518) 434-4315

---

**From:** Leah Golby [mailto:leah.golby@gmail.com]  
**Sent:** Tuesday, April 16, 2013 2:44 PM  
**To:** William Trudeau  
**Subject:** forwarding a comment from someone who can't make the meeting



Hi Bill, see below -- there may be a couple more coming too.

Leah,

I will be unable to make either of the Madison ave. road diet feasibility study meetings. However in looking at the diagram, I vote for option C where bikes and parked cars have their own distinct lanes.

Right now, there is not a DISTINCT lane for bikes and it greatly startles me when a bike whizzes up on my right unexpectedly!

Don't know which option you like best, but if you've heard from others that echo what I am saying, then please represent that to the Council.

Thanks, as always!!!

--  
Leah Golby  
10th Ward Council Member  
550 Myrtle Avenue  
Albany, NY 12208

Cell: 518.209-1244  
Home: 518.438-1244  
[leah.golby@gmail.com](mailto:leah.golby@gmail.com)  
Follow me on [Twitter](#)  
"Like" me on [Facebook](#)

4/26/2013

**From:** Pat Doyle [mailto:[pad6002@hotmail.com](mailto:pad6002@hotmail.com)]  
**Sent:** Tuesday, April 16, 2013 9:43 PM  
**To:** William Trudeau  
**Subject:** St. Rose meeting

13

Hello Mr. Trudeau,

Tonight's meeting was so interesting and I'm glad I attended.

In addition to the Madison Ave. project, I was very happy to hear that there will be traffic signal work done on Western.

The Melrose Neighborhood Assn. is meeting on Monday, April 29 and I would be happy to provide attendees with information about this project.

Please remind me which part of Western is affected, what decisions have already been made and which decisions residents might be able to give suggestions about. Also are you planning presentations at neighborhood meetings? Or should people provide comments via the email address [MadisonAveStudy@albany-ny.org](mailto:MadisonAveStudy@albany-ny.org)

Thank you.

Pat Doyle

PS I appreciate your team's quick response to report of traffic lights out which I report when I see them.

**Alanna Moran**

**From:** Stephan Godlewski  
**Sent:** Friday, April 19, 2013 8:06 AM  
**To:** Alanna Moran; Jeffrey Pangburn; Mark Sargent  
**Subject:** FW: [New post] Pine Hills Embraces Option 5A

**From:** Stephan Godlewski [mailto:swgodlewski@gmail.com]  
**Sent:** Friday, April 19, 2013 8:01 AM  
**To:** Stephan Godlewski  
**Subject:** Fwd: [New post] Pine Hills Embraces Option 5A

----- Forwarded message -----

**From:** Albany Bicycle Coalition <comment-reply@wordpress.com>  
**Date:** Fri, Apr 19, 2013 at 7:57 AM  
**Subject:** [New post] Pine Hills Embraces Option 5A  
**To:** [swgodlewski@gmail.com](mailto:swgodlewski@gmail.com)

Respond to this post by replying above this line

New post on Albany Bicycle Coalition



## Pine Hills Embraces Option 5A by [Lorenz Worden](#)



*(After the City of Albany's recent public meeting on the Madison Avenue Traffic Calming study, the Pine Hills Neighborhood Association put forth the following statement in support of Traffic Calming. Some slight editorial changes made by ABC. This statement seems consistent with opinions expressed by many at the April 16, 2013 presentation.)*

The Pine Hills Neighborhood Association's strong preference is for Alternative 5, which includes both restriping from 4 to 3 lanes (including a turn lane) AND traffic signal coordination. The association believes that both components must go together in order to produce a design that has the best chance of being funded. In terms of options, we also support Option A, which calls for sharrows [shared lane bicycle markings].

We understand that the next stage of this road diet project includes Phase 3 (design phase). In anticipation of the Albany Common Council's passing of its Complete Streets legislation, would it not make sense for Phase 3 to include an entire Complete Streets design for Madison Avenue? Having a fully worked out plan for Madison Ave. will put Albany in a good position to apply for grants that are earmarked for Complete Streets and other public safety transportation funds.

In anticipation of getting to this point in the process, we approached our NYS representatives a couple of years ago about implementation funds. Once we have a design, we will remind them of their support and commitment. We will continue to work with state and federal agencies to advocate for funds necessary to make Madison Avenue safer for all users.

**Lorenz Worden** | April 19, 2013 at 7:57 am | Categories: [Article](#) | URL: <http://wp.me/pmNrn-YI>

[Comment](#) | [See all comments](#)

Unsubscribe or change your email settings at [Manage Subscriptions](#).

**Trouble clicking?** Copy and paste this URL into your browser:

<http://albanybicyclecoalition.com/2013/04/19/pine-hills-embraces-option-5a/>

Thanks for flying with  WordPress.com