

Michael J. Wallwork, P.E.
President/Transportation Engineer
Alternate Street Design, P.A.

My 35 years of experience have included traffic engineering, road construction, transportation design, traffic calming, presentations, and training courses for a wide range of projects ranging from single intersection design to large-scale road projects that integrate attractive landscaping with pedestrian, bicycle and vehicle facilities. My perspective is that streets and highways are transportation corridors for all people that can be designed to benefit motorists, transit, pedestrians, bicyclists, and people with disabilities.

Over the years, I have developed a set of design principles based on first-hand experience and post construction reviews. These principles form the foundation for my design work. I share my expertise by presenting training courses, charrettes, workshops, and presentations across the US so people can make informed decisions regarding transportation.

Main Street Design:

I have taken the National Main Street Training program and worked with approximately 30 Main Streets in Florida, California, Hawaii, Asheville, NC, Kansas, Missouri, etc. Some notable designs are College St, Asheville, NC, La Jolla Boulevard, San Diego, Main Street in Zephyrhills and Santa Monica Boulevard, West Hollywood.

Traffic Calming

My involvement began with in the development of Local Area Traffic Management (LATM) projects in Australia in the early 1970's when traffic calming was a new concept. We developed a community process and traffic calming treatments by trial and error.

In the US I have helped communities prepare traffic calming concept plans in Missoula, MT; Dover, DE; Boca Raton, Clearwater (9), Gainesville (3), Jacksonville, and Orange County (4) in FL; Colorado Springs, CO, Austin, TX; Honolulu, HI (21); Ballwin, Wildwood, Liberty, MO; Lawrence, Overland Park (3), Kansas, etc. I wrote traffic calming guidelines and procedures for several cities.

Roundabouts

I have been instrumental in designing and promoting roundabouts in the United States. Although not the solution in all cases, roundabouts have far more uses than typical intersections. Based on my 32 years of roundabout design experience enables me to provide appropriate advice about the feasibility and layouts for successful roundabouts for pedestrians, vehicles, bicyclists, trucks, oversize trucks and emergency vehicles.

For about 32 years I have been designed more than 500 in 5 countries Australia, Cayman Islands, Canada, India and the US, been instrumental in bringing roundabouts to the US. During that time I have designed just about every type an shape of roundabout from local street roundabouts, major three lane roundabouts carrying up to 90,000 vehicles per day with light rail through the center.

I have presented more than 1,090 roundabout presentations, 52 roundabout training courses to public sector agencies and commissions, political leaders, and citizens in more than 40 states.

Walkable Communities: I assisted in the writing of and presentation of 100+ Walkable Community Design courses.

Access Management:

As Access Management Engineer for the Florida Department of Transportation in District 2, I reviewed road plans and permits to comply with Access Management Rule 14-97. I successfully settled cases for the Florida Department of Transportation before they went to trial and served as an expert witness for the 1995 challenge to rewrite Access Management Rule 14-96 that made median openings a traffic control device.

Traffic Signal Design:

During my 32 years as a traffic engineer, I have designed and/or redesigned a thousand signalized intersections in Melbourne, Australia, Columbia, South Carolina, and Northeast Florida. They range from simple two-phase signals to major intersections up to 90,000 vehicles per day.

Road Layouts:

I have prepared a wide range of people friendly street designs such as Santa Monica Boulevard, West Hollywood, CA, Main Street Zephyr Hills, FL, Putney Road, Brattleboro, VT, Clayton Road, Ballwin, MO, Route 109, Wildwood, MO, College Street, Downtown Asheville, NC, and La Jolla Boulevard, San Diego, CA, etc.

Road Diets

A number of my road projects have taken four and five lane, signalized roads and converted them to two lane roads with roundabouts and gained significant improvements in operation. Examples include, College Street, Downtown Asheville, NC, La Jolla Boulevard, San Diego, CA, 40th Street University Place, WA.

Design Charrettes, Community Consensus Building:

In keeping with my philosophy of providing community involvement in community projects, I participate in an increasing number of projects that involve building community consensus. In these projects, I primarily provide citizens and professionals with latest design philosophies and opportunities and then help the community prepare its own designs.

Transit Design

During my 12 years as a Traffic Engineer in Melbourne, Australia I designed, built, and programmed traffic signals along light rail routes where the light rail was either was in a median or shared a travel lane with motor vehicles. I also designed intersections and signals along several light rail extensions of more than 17 miles. During I recently worked on a Bus Rapid Transit project in Cleveland, Ohio where I sold a new concept to smooth transit operations by using roundabouts.

Contributing Author

I have co-authored many articles that include Traffic Signal analysis abed design, Analysis of pedestrian crashes, traffic calming, A new direction in Road Design, Traffic calming, Roundabouts, etc.

Author

I have also written many articles about a range of traffic engineering topics

Honors and Recognition

A growing number of projects that I designed, or helped to design, have won various awards across the US, a few examples follow that include road design with and without roundabouts, Traffic Calming, and Roundabouts.

1. La Jolla Boulevard, San Diego, CA, a five lane to two lane road conversion with five roundabouts in a mile.
APWA 2008 Road Design Project of the Year
Urban Land Institute's "Smart Growth Award" for the "Catalyst Project of the Year"
American Planning Association's "Award of Merit" for "Planning Excellence for a Grassroots Initiative."
2. Village of Hamburg - (one of eight projects selected by FHWA and AASHTO as best CSS management practices nationwide, 2006)
3. Route 66, Santa Monica Boulevard, West Hollywood, CA, ULI Award for Urban Design
4. Roundabout in Overland Park, Kansas - National APWA Public Works Project of the Year under \$2 Million
5. Community Plan West Fresno, CA. West Fresno Community Vision Plan - First Place Comprehensive Planning Award (Large Jurisdiction) by CCAPA Central Section

Membership

Fellow of the Institute of Transportation Engineers

Member Congress for New Urbanism

Executive Board Member, JaxPride, Jacksonville. JaxPride is a group of unpaid professionals that are improving the quality of life in Jacksonville.

Hourly Rate for Michael Wallwork

Professional fees are \$165.00 plus travel expenses

I do not have any support staff as I do all the creative thinking, problem solving, design and CAD work, I design as I draw. It cuts out the middle man is a lot faster and accurate.

I am readily available and I have never disappointed a client. I have no work programmed for the future except for a couple of days in March and May. As time passes, I may have the odd day here and there when I will travel outside of my office.

I can travel to Minneapolis during March 9 to 16.

Contact is via email or phone.

Areas of Expertise

1. Pedestrian and bicycle design at roundabouts
2. Pedestrian and bicycle design mid-block
3. Pedestrian and bicycle design at standard intersection
4. Pedestrian and bike design across right turn slip (free flow) lanes
5. Sidewalk design
6. Roundabout and intersection design incorporating transit, bicycles and vehicles.
7. Railroad crossing design for pedestrians and bicycles

One area of specialty is a broader area of problem solving road design and intersection design using innovative design techniques or to develop my own.

When I migrated to the US, I had more input to the writing of the A.D.A. Guidelines than any other single person in the country did. This was because it was an area of concern for me. 30 years ago, in Australia we designed to a standard that exceeds current A.D.A. Guidelines. Back then about 30 years ago, I wrote the Guidelines for People with Disabilities at signalized intersections, the location of crosswalks, audible /tactile push buttons. I also developed the wheelchair loop so people in wheelchairs did not have to push a button and received double the Walk/Don't Walk time.

In the US, I invented the bike ramps at roundabouts about 12 years ago. I developed the safety/buffer lane so people entering a vehicle parked on street where separated from moving vehicles where the space. This was not a bike lane.

I wrote the engineering part of the Florida Pedestrian Design Manual with Dan Burden about 18 years ago and with him developed and taught the pedestrian Design Course that we taught many times.

And so on.

I have conducted many charrettes by myself or with Dan Burden and taught others how to manage them. For street design, traffic calming, roundabouts. I have prepared training courses in street design, traffic calming, pedestrian design and roundabouts and conducted more than 50 of these training courses the run from several hours to two and a half days.

In addition I assist by conducting a curette, preparing a concept plan, prepare the preliminary layouts, then finally asset with the preparation of the construction plans, and occasionally I undertake site inspections. Therefore, I offer a full service to project engineers/clients. That way I can ensure what the people say is truly constructed.



THE CITY OF SAN DIEGO
COUNCILMAN
SCOTT H. PETERS

FIRST DISTRICT

November 10, 2004

Subject: Reference Letter for Alternative Street Designs, PA

To Whom It May Concern:

It is with pleasure that I recommend Michael Wallwork with Alternative Street Designs, PA for preparing traffic calming programs.

Over the last 3 years, Michael Wallwork, Sue Newberry and Dan Burden assisted the Bird Rock Traffic Calming Task Force and City staff with developing the Bird Rock Traffic Management Plan. The team led highly effective workshops, provided innovative alternative traffic calming methods to the task force, and prepared the conceptual designs based on their input.

Following the conceptual design, the City contracted with another consulting firm to prepare construction drawings for the first phase of the project. Several of the task force members were concerned with elements of the construction drawing designs. To address the public concerns, I, along with the task force, requested Mr. Wallwork review the construction drawings. Mr. Wallwork reviewed the drawings in the field with task force members and suggested changes to the drawings to re-establish the original designs concepts.

Michael is extremely knowledgeable of all types of traffic calming methods and processes to initiate a project and retain public support. Mr. Wallwork's team efforts will result in a highly functional traffic calming project that meets the objectives of the community.

With complete confidence I recommend Michael Wallwork for any traffic calming related program or project in your community. Please call me at (619) 236-6611 if you have any questions about the success of our project.

Sincerely,

Scott Peters





*City of
Encinitas*

November 10, 2004

Re: Letter of Recommendation for Michael Wallwork

To Whom it May Concern:

I have had the pleasure of working with Mr. Michael Wallwork of Alternate Street Design, P.A. over the last five years on several City of Encinitas projects such as Coast Highway 101, Leucadia Boulevard, and Santa Fe Drive streetscape/traffic calming projects, the development of numerous roundabout and neighborhood traffic calming concepts and designs, and more recently the development of a Citywide Neighborhood Traffic Management Program.

Over these five years, I have found that Mr. Wallwork has that extremely rare quality of having broad traffic engineering/planning experience with highly developed technical skills combined with the ability to conduct excellent public presentations.

As an example, in the process of developing the City's Neighborhood Traffic Management Program, Mr. Wallwork along with his consultant team of Sue Newberry and Dan Burden held two citywide public workshops where a total of 200 citizens attended. Almost all of the 200 citizens were there because they were angry about the speed or volume of traffic through their neighborhoods. Mr. Wallwork and his team showed their excellent communication skills and were able to incorporate citizen input, educate the public, and what resulted was the transformation of anger into positive enthusiasm. They were able to energize a large group of citizens in a way I have not seen before in my 12 years as Traffic Engineer for the City of Encinitas.

In addition, I have always been impressed with how responsive Mr. Wallwork has been when I have needed a project completed on short notice and on a tight schedule. He has always provided his work and projects to me on time and within budget. I don't think you will find anyone who takes more pride in his work and who is more hardworking than he is.

I take genuine pleasure in recommending Mr. Wallwork to you.

Please feel free to contact me at (760) 633-2705 should you need further information.

Sincerely,

Rob Blough, P.E., T.E., PTOE
City Traffic Engineer

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