Document Summary Information Sheets

The following pages summarize the background and details of historic transportation studies and documents related to Downtown Lafayette. A summary table for each study identifies the themes, the solution options that have been tested for each, recommendations that have been vetted in the public process, and measures that have garnered community consensus and been implemented.

Document Name	Adopted Downtown Specific Plan- Getting Around Chapter
Author	City of Lafayette
Date	September 10, 2012
Summary Description	This chapter describes the context and provides the plan for each mode of travel – motor vehicle, pedestrian, bicycle, and transit – and for parking. It includes a Transportation Demand Management section that describes how to maximize alternative modes – walking, bicycling, transit – while still providing adequate vehicular capacity. The DSP's intent is to have a downtown that is safe and convenient for getting around and provides more parking where it can be best utilized.
Themes	 Achieve a balance between the potentially conflicting goals of improving traffic flow and maintaining and enhancing the City's quality of life and sense of place, particularly in the Downtown Core. Mitigate future congestion where feasible through physical improvements and, more importantly, through offering more land use options and enhancing alternative transportation options Manage traffic congestion through mitigation and capacity management measures rather than roadway widening. Encourage the cooperative efforts with Lafayette Elementary School, Stanley Middle School, and the City to address downtown congestion associated with school drop-off and pick-up. Encourage the cooperative efforts with Lafayette Elementary School, Stanley Middle School, and the City to address downtown congestion associated with school drop-off and pick-up. Adjacent high speed and high volume traffic, super-blocks with few protected crossings, gaps in the walkway network, and limited enhancements, such as wide walkways, wide intersection corners, street furniture, and other amenities, often limit walkability. The aim of the DSP is to encourage walking as an alternative to vehicular travel by improving pedestrian facilities Adding bicycle lanes to existing downtown streets – while desirable to improve bicycle circulation – is difficult due to the associated trade-offs requiring some combination of on-street parking, or landscape buffers. Better transit connections and frequency could connect residents to the downtown. Equally important, improved transit could offer an alternative to driving for downtown employees. Improve downtown circulation through TDM strategies: User Information and Marketing; Commuter Financial lincentives; Transportation Management Association; Car-Sharing; and Commute Trip Reduction Programs. Only 44 spaces are in off-street, City-owned parking lots and available without restrictio

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	• On-street metered spaces in the Downtown Core are largely underutilized,
	with occupancy rates ranging from less than 10 percent to 77 percent. This is
	lower than the optimum industry standard of 85 percent occupancy.
Options Considered	• A shuttle running the length of Mount Diablo Boulevard in the downtown and the section of Moraga Road north of St. Mary's Road would provide a transit option that could reduce traffic congestion. The level of reduction would depend on the levels of service and ridership. A shuttle might also ameliorate the need to make multiple car trips within the downtown. A person could park in the less-congested East End and use a shuttle to make stops in the Downtown Core. Such a program, however, would be a significant undertaking for a city the size of Lafayette with limited resources. The experience of other similarly situated suburban communities with shuttles has not been particularly encouraging.
	 Encourage local and regional programs to support alternative modes of travel, recognizing that walking, biking, using transit, and parking in the right location may mitigate traffic congestion and preserve the small town character.
Recommendations	• Analyze the impacts and benefits of removing the four parking spaces on the east side Moraga Road south of Plaza Way.
	 Work with school administrators and parents to develop options for school commuting, including carpooling, walk and bike-pooling, employee parking, and satellite drop-off and pick-up locations.
	• Investigate the interest and feasibility of reestablishing school bus service to Lafayette Elementary School and increasing service to Stanley Middle School.
	• Work with school administrators and parents to develop options for school commuting, including carpooling, walk and bike-pooling, employee parking, and satellite drop-off and pick-up locations.
	• Provide connections between the schools and the Lafayette / Moraga Trail.
	• Implement those sections of the Master Walkways Plan and Trails Master Plan that will improve pedestrian access to, from, and within the downtown, particularly between residential neighborhoods and the downtown.
	 Improve and increase north-south pedestrian crossings on Mount Diablo Boulevard using crosswalk enhancements,
	 Develop connections between properties and streets and in between properties to shorten pedestrian and bicycle travel by considering internal pathways through new development sites and connections to adjacent developments.
	• Assess the feasibility of a pedestrian connection between Brook Street and the Methodist Church parking lot using the private East Street.
	Assess the feasibility of improving the bicycle connection between the

Document Name	Adopted Downtown Specific Plan- Getting Around Chapter
	Lafayette-Moraga Trail, schools, and BART Station.
	• Determine the feasibility of a local shuttle service and related support facilities, such as park-and-ride lots, to serve downtown and BART.
	• Work with transit providers and transportation funders to develop a strategy for providing increased headways and connections.
Outcome/ Community	Concern raised about traffic generated from new development. Plan
Response	adopted recently and implementation is just beginning. The Lamorinda
	Program Management Committee is considering whether or not to conduct a
	Lamorinda shuttle study.

Document Name	Downtown Specific Plan Final EIR (2010): Transportation Excerpt
Author	Design, Community and Environment
Date	August 10, 2010
Summary Description	Changes made from the Downtown Specific Plan DEIR
Themes	Delay at Deer Hill and Oak Hill Roads would create a significant impact at the
	all-way stop controlled intersection.
Options Considered	• Widening Deer Hill Road to three lanes eastbound at SR 24 westbound ramps and making two right turn lanes onto First Street.
	• Adding a center, left turn lane on Moraga Road between School and Brook Streets is not an acceptable due to inadequate lane width to accommodate bicycles and the lack of separation between vehicles and pedestrians.
	• Adding an additional westbound, left-turn lane on Deer Hill at the westbound on-ramps and eliminating the westbound bike lane
	• Widening Moraga Road to add a second northbound right turn lane approaching Mt. Diablo Blvd. is not a feasible mitigation.
	• Adding a center left-turn lane on Moraga Road between School Street and Moraga Blvd. is not a feasible mitigation.
Recommendations	 Restripe southbound Oak Hill Road approaching Mt. Diablo Blvd. to two- left-turn only lanes, one through lane and one right-turn lane.
	 The Lamorinda Nexus Study should be revised to include recommended improvements.
	 All-way stop control at Deer Hill Road and Happy Valley Road will not be sufficient for future anticipated growth.
	 Notify adjoining jurisdictions per the requirements of the Lamorinda Action Plan.
	5. Goal 6: Improve Citizens' Health, Reduce Traffic Congestion and Provide Alternative Modes of Travel Through Bicycling
Community Response/	FEIR recently certified by Council therefore few recommendations have been
Outcome	implemented. Community has raised concerns about the level of congestion
	related to both the DSP's implementation and from development in adjacent
	jurisdictions.

Document Name	Downtown Specific Plan DEIR Traffic and Transportation
Author	Design, Community and Environment
Date	January 26, 2010, prepared by TJKM Transportation Consultants in
	November, 2009.
Summary Description	This chapter includes a description of existing traffic and circulation
	conditions; transit, bicycle, and pedestrian facilities; and parking conditions in
	and around the Plan Area.
Themes	Among the primary goals of the Plan are to balance vehicular travel through
	the downtown by providing a safe pedestrian and bicycle system, as well as
	to ensure an accessible and continuous pedestrian network with appropriate
	supporting infrastructure.
Options Considered	 Widening Moraga Road to add the second northbound right-turn lane would require substantial reconstruction of the sidewalk, landscaping, and structural elements of Plaza Park along the east curb area, and result in a reduction of the usable recreation and community activity area at the Park. In addition, the resulting easterly shift of the southeast corner
	of the intersection would increase the crossing distance for pedestrians crossing Mount Diablo Boulevard or Moraga Road to or from that corner.
	• To reduce impacts to less-than-significant levels, a center left-turn lane should be added on Moraga Road between School Street and Moraga Boulevard. The center left-turn lane would be used by southbound Moraga Road traffic turning left at School Street or at Lafayette Elementary School. Adding a center left-turn lane on this portion of Moraga Road would require narrowing all lanes to approximately 10-foot widths, eliminating existing striped shoulders between traffic lanes and curbs, and eliminating existing parking along the west curb.
	• Deer Hill Road should be restriped to include three eastbound through lanes at the State Route 24 westbound ramps intersection in the future,
	• Further improvement could be achieved by adding a second westbound left turn lane on westbound Deer Hill Road approaching the State Route 24 westbound ramps intersection, in addition to the eastbound lane additions identified above.
	 Constructing the additional capacity needed to mitigate the peak hour/peak direction delay impacts on State Route 24 in the study area, such as additional mainline freeway lanes, etc., would be extremely expensive and disruptive. Caltrans is currently working on a study that may propose high-occupancy vehicle (HOV) lanes on State Route 24. However, the feasibility, schedule, and funding for such a project are unknown at this time, and therefore it is not considered a feasible mitigation.
	 Constructing the additional capacity needed to mitigate the peak hour

Document Name	Downtown Specific Plan DEIR Traffic and Transportation
	delay impacts on Pleasant Hill Road north of State Route 24, such as
	widening for additional through lanes, etc., would likely be prohibitively
	expensive and disruptive because of the topography of the roadway
	alignment, as well as the negative impacts on and the cost to acquire
	adjacent properties. Additional capacity would also be contrary to the
	Action Plan measures to meter traffic flow on Pleasant Hill Road.
Recommendations	1. Oak Hill Road should be restriped to include two southbound left-turn-
	only lanes at the Mt. Diablo Blvd. intersection in the future, revising to
	provide two left-turn only lanes, one through lane, and one right-turn
	lane.
	2. Based on a preliminary signal warrant analysis (Peak Hour Volume
	Warrant), a traffic signal should be installed at the intersection of Oak Hill
	Road/State Route 24 eastbound off-ramp. The City should monitor the
	intersection and install the traffic signal at such time that signal warrants
	are met.
	3. Based on a preliminary signal warrant analysis (Peak Hour Volume
	Warrant), a traffic signal should be installed at the intersection of Deer
	Hill Road and Happy Valley Road when mid-day or PM peak hour
	operations deteriorate to LOS E or as determined by the City of
	l afavette
	4 The City should monitor the intersection of Deer Hill Rd and Oak Hill Rd
	and install a traffic signal when warrants are met. Signalization of this
	intersection is already contemplated in the Lamorinda Nevus Study, and
	as such the related impacts would already be mitigated
	as such, the related impacts would uncady be initigated.
	5 The City should monitor the intersection of First St. and the SR24
	Fasthound On-ramp and install the traffic signal at such time that PM
	peak hour operations deteriorate to LOS E for the southbound left turn
	Development projects within the Plan Area should contribute a fair share
	to the funding of this mitigation as determined by the City of Lafavette
	to the funding of this findgation, as determined by the city of Lardyette.
	6 Address localized roadway circulation impacts during the environmental
	and design review processes for the downtown parking facility location
	that is ultimately chosen. Measures to consider for minimizing impacts
	include providing adequate signage that efficiently leads motorists to the
	parking structure and providing additional modian openings
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Community Response /	Community comments on the DEIR were incorporated into the EEIR as
Outcome	appropriate The Community has raised concerns about the level of
	congestion related to both the DSP's implementation and from development
	in adjacent jurisdictions

Staff Depart recording simulation issues within the Mange Depart consider and
Stan Report regarding circulation issues within the Moraga Road corndor and
Carol Federighi, Councilmember and MORTRAC Chairperson
Ann Merideth, Community Development Director
May 2004
For the Lafayette School Board and City Council the staff report provides a
brief background of the MORTRAC process, including the identification of the
key circulation problems and the development of feasible solutions to these
problems. The report then focuses on the role of the schools in mitigating
problems and suggesting next steps.
Congestion:
 Heavy traffic congestion in the mornings and afternoons make it difficult
to turn off of and/or onto Moraga Road, particularly left turns across
traffic. Traffic congestion and long backups also are the result of people
making left turns off of Moraga Road.
 Local schools contribute a significant amount to traffic congestion
 Growth in Moraga has made traffic conditions worse, and new growth
will continue to increase congestion
will continue to increase congestion.
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Jaicly.
 There is significant speeding and a fack of emotement of speed limits resulting in assidents and upperfective resumments off of and (or ento-
resulting in accidents and unsale turning movements of or and/or onto
Moraga Road from side streets and private driveways.
Moraga Road is unsafe because of a lack of pedestrian and bicycle
facilities, particularly for children, and because of road conditions, such
as poor lighting, limited visibility, rough surfaces and poor drainage.
Twenty-nine options were considered and are reviewed separately in the
Recommendations and Implementation Table
1. Request the Lafayette School District to consider program(s) to modify
locations, habits, and patterns of school drop-off/pick-up activities for
both Stanley and Lafayette School.
2. Facilitate and increase enforcement of speed laws.
3. Construct pedestrian paths along both sides of Moraga Road.
4. Improve bicycle and pedestrian safety on First Street.
5. Negotiate with the Moraga to use the Palos Colorados traffic signal to
meter traffic on Moraga Road.
6. Implement intersection improvements at Moraga Road / Brook-School
Streets.
7. Implement an on-going vegetation management program to improve
walkway clearance and sight distances at side streets, driveways,
sidewalks and around curves on Moraga Road.
8. Deploy a facilitator to keep traffic moving through the drop-off and pick-
8. Deploy a facilitator to keep traffic moving through the drop-off and pick- up area and minimize blockages of the driveway openings at Moraga
8. Deploy a facilitator to keep traffic moving through the drop-off and pick- up area and minimize blockages of the driveway openings at Moraga Road

Document Name	Staff Report regarding circulation issues within the Moraga Road corridor and
	the findings of MORTRAC
	10. Restore signage to prohibit left turns from the Lafayette School driveway
	11. Create new and/or satellite drop-off and pick-up locations, such as
	adjacent to the Stanley School sports field off St. Mary's Road or at the new Library
	12. Create and encourage parents to use appropriate locations for short- term parking
	13. Implement a "walking school bus" with designated stops along routes used by parents going to and from the schools
	14. Stagger school bell times and/or school buses
	15. Educate parents and students about best traffic practices – the DOs and
	the DON'Ts
	16. Provide incentives for children to ride bikes or walk to and from school,
	and provide disincentives for parents driving children to and from school
	as part of an independent transportation demand management program
	17. Develop a civics curriculum with ties to Moraga Road traffic issues
	18. Investigate the operation of a school bus line on Moraga Road
Outcome / Community	Implemented recommendations 1-4, 6, 7 and 18 above.
Response	• Met with the Lafayette School District to explore if and how MORTRAC's ideas can be implemented. Recognizing that certain projects will take time and ongoing collaboration, MORTRAC recommended that the initial joint meetings also be used to establish subcommittees that could work together to follow up each project to its conclusion.
	 Contacted the Lamorinda School Bus Board to request a discussion regarding the feasibility of school bus service along Moraga Road and was determined that there was insufficient support.

Document Name	City Council Staff Report on Recommendations regarding circulation
	improvements within the Moraga Road corridor
Author	Moraga Road Transportation Advisory Committee (MORTRAC)
Date	October 2003
Summary Description	The intent of the MORTRAC process is to address community concerns about
	the level of vehicular traffic and its impact on the quality of life, especially
	pedestrian and bicycle safety, neighborhood character and traffic congestion.
Themes	Preliminary Problem Statement:
	Congestion
	 Heavy traffic congestion in the mornings and afternoons make it difficult to turn off of and/or onto Moraga Road, particularly left turns across traffic. Traffic congestion and long backups also are the result of people making left turns off of Moraga Road. Local schools contribute a significant amount to traffic congestion. Growth in Moraga has made traffic conditions worse, and new growth will continue to increase congestion.
	 Safety There is significant speeding and a lack of enforcement of speed limits resulting in accidents and unsafe turning movements off of and/or onto Moraga Road from side streets and private driveways. Moraga Road is unsafe because of a lack of pedestrian and bicycle facilities, particularly for children, and because of road conditions, such as poor lighting, limited visibility, rough surfaces and poor drainage.
Options Considered	Refer to pages 4-9 of the staff report
Recommendations	Refer to pages 4-9 of the staff report
Community Response /	General support for items A-G. Items B, C, F and G generally implemented.
Outcome	

Document Name	Technical Memorandum / Mount Diablo Boulevard / Moraga Road Corridor
	Analysis
Author	Fehr & Peers Associates
Date	March 24, 2000
Summary Description	Reviews existing operations and proposed scenarios for the two corridors
	including roadway geometry, travel lane assignment, and signal timing and
	excess capacity analysis
Themes	 Congestion focused in morning at Moraga Road/Brook Street/School Street intersection due to heavy pedestrian demand reducing green time available to vehicles. Morning congestion on porthbound approach at Mt. Diablo
	Boulevard/Moraga Road due to signal timing, lack of capacity and crosswalk at Plaza Way
	Lafayette and Stanley Schools bell times
	 Lack of capacity at Mt. Diablo Boulevard/Moraga Road in the PM Peak Hour Parking maneuvers and delivery operations on Mt. Diablo Boulevard between Oak Hill road and Moraga Road in PM
	Discussion of excess capacity
Key Options	 Increasing the pedestrian crossing time to 2.5 secs/foot
Considered	Minimize cycle lengths where possible
	Coordinate the end of vehicle platoons to reduce queue spillback
	 Widen Mt. Diablo Boulevard to three lanes eastbound between Oak Hill Road and First St.
	 Lengthening turn pockets on eastbound approach to Mt. Diablo Boulevard/Moraga Road
	 Change the alignment of the northbound approach to M. Diablo
	Boulevard/Moraga Road to left-turn lane, left-through lane and right turn
	(existing was left-turn pocket, left-through lane and right-turn lane)
	 Modify Safeway driveway from two lanes in to two lanes out and a left-turn pocket
	 Convert Plaza Way to one-way eastbound and Golden Gate Way into two-
	way road.
	Remove westbound right-turn pocket at Mt. Diablo Boulevard/Oak Hill Road
Recommendations	1. Do not lengthen pedestrian walking times
	2. Remove the Plaza Way crosswalk
	3. Change Plaza Way to one-way eastbound
	4. Restrict PM peak hour on-street parking eastbound on Mt. Diablo Boulevard
	5. Change the alignment of the northbound approach to Mt. Diablo
	Boulevard/Moraga Road to left-turn lane, left-through lane and right turn
	(existing was left-turn pocket, left-through lane and right-turn lane)
	 Modify Safeway driveway from two lanes in to two lanes out and a left-turn pocket.
	7. Increase green time for eastbound, left-turn at Mt. Diablo Boulevard/ Happy
	Valley Road to encourage use of Deer Hill Road
	8. Install signals at Deer Hill Road intersections, if warranted, to encourage

Document Name	Technical Memorandum / Mount Diablo Boulevard / Moraga Road Corridor
	Analysis
	more traffic to by-pass Mt. Diablo Boulevard
	9. Encourage schools to modify their start times to limit the overlap with
	commute traffic
Community Response /	Recommendations 1-3, 5-7 and 9 were implemented
Outcome	

Document Name	Town of Moraga Available Roadway Capacity Study
Author	Robert L. Harrison Transportation Planning
Date	January 1999
Summary Description	Sought agreement on methodology for collecting and analyzing existing and future traffic data in Lamorinda to determine the amount of vehicle capacity that would exist on the Moraga Way, Moraga Road and St. Mary's Road- Glenside Drive-Reliez Station Road-Olympic Boulevard corridors.
	 Identification of existing capacity of key arterial streets and mitigated capacity; agreement on traffic counts and methodology used to analyze intersections; trip generation procedures to Comparison of Lamorinda policies and standards Significant congestion on the northerly end of the Moraga Road Corridor in downtown Lafayette Evaluation of traffic impacts from approved new development Available capacity dependent on direction of travel Along the Moraga Road corridor, the intersection that most severely limits the existing capacity is at Moraga Boulevard. Lafayette's Downtown Traffic Plan calls for signalizing which will greatly increase capacity. Moraga Road/School and Brook Streets is the second most capacity limiting intersection on the corridor Existing significant side street delay south to Old Jonas Hill which would worsen with additional trips. Total existing available capacity of the three corridors is most limited at morning peak hour. Existing available capacity at this time of day is 150 added peak hour trips. Existing available capacity with a signal at Moraga Blvd. increases from 0 to 570 trips. Brook-School Street would change from an existing capacity of 90 to 400 trips if planned improvements in the Downtown Traffic Plan (realign Brook Street) are installed
Options Considered	Methodologies used for calculating LOS (HCM and CCTA)
Recommendations	Trip Generation Procedures for New Development
Community Posponso /	Lamorinda jurisdictions now use trip generation procedures and LOS
Outcome	calculations consistent with CCTA requirements

Document Name	Lafayette Downtown Traffic Study for Moraga Road Corridor	
Author	Dowling Associates	
Date	January 8, 1998.	
Summary Description	Studied options for a long-range strategy for improving Moraga Road. Includes a pedestrian and bicycle study, traffic operations analysis and supplemental traffic studies. Developed alternatives including a two-way, left-turn lane, removal of on-street parking and bike lanes, widening the street via taking property, and dedicated left-turn lanes.	
Themes	 Evaluation of two total system alternatives for Moraga Road including long term and interim plan. Pedestrian and bicycle study of issues along the Moraga Road corridor. Traffic operations analysis 	
Key Options Considered	 North of Brook Street Five lanes: Four through lanes plus a two-way left-turn lane (TWLTL) north of Brook St. Requires removal of bike lanes and parking. Option may not work effectively if a signal is installed at Moraga Blvd. High potential for congestion relief. Modified TWLTL Through traffic unimpeded northbound, merge required southbound. Bike lanes removed, parking maintained. Moderate potential for congestion relief. 	
	 Modified TWLTL (one southbound, two northbound through lanes north of Brook St.) with the following options at Brook/School: Two southbound through lanes, i.e. existing conditions. Impact-moderate congestion. One southbound through lane; one southbound dedicated left turn lane between Brook and School Streets. Impact-highly congested. Problem with the two westbound, left turn lanes on Mt. Diablo Blvd. merging into one southbound lane. Two southbound through lanes; one southbound dedicated left turn lane accomplished by widening between Brook and School Streets through property acquisition. Impact-uncongested. 	
Recommendations	1. Five lane alternative north of Brook Street to serve the long-term	
	 needs for downtown circulation as well as regional mobility; If funding is availability continuing five lanes between Brook and School Streets. Provide alternative parking to accommodate the long torm. 	

	transportation needs and compensate for removal of parking.	
	Cheaper to replace parking elsewhere than to widen Moraga Rd.	
	4. Removal of crosswalks not at signals	
	5. Widening sidewalk in front of School	
	6. Extending the length of the sidewalk to Old Jonas Hill Road	
	7. Construction of a pathway on First Street,	
	8. Turn restriction signage at Brook Street	
	9. Remove bike lanes on Moraga Road north of Brook/School	
	streets and use alternative route.	
	10. Install new traffic signal at Moraga Blvd. when warrants are met.	
	11. Do not install a traffic signal at Hamlin Road and Tanglewood	
	Drive as it is not warranted at the time.	
	12. Do not install a traffic signal at Silver Springs Rd. Mtn. View Dr./	
	Old Jonas Hill Road as it is not warranted at the time.	
	13. Do not install a southbound left turn lane at the Madrone Drive	
	intersection.	
	14. Do not remove the Brook Street signal and the crosswalk on its	
	south leg.	
Community Response /	Recommendations Implemented: #3 partially (new Moraga lot), #4	
Outcome	and 6-14.	

Document Name	Lafayette Downtown Feasibility Study / Lamorinda Transportation	
	Improvement Program (Draft)	
Author	Robert L. Harrison Transportation Planning	
Date	Revised June 1997	
Summary Description	As the first phase of the Downtown Feasibility Study, the report	
	identified and evaluated those transportation improvements that	
	were consistent with the goals and policies of the revised General	
	Plan and that would provide a significant transportation service for	
	downtown Lafayette by reducing traffic congestion in downtown at	
	Moraga Road/Mt. Diablo Boulevard intersection.	
Themes	Reviewed existing conditions on the Mt. Diablo Blvd. and Moraga	
	Road corridors.	
	• Evaluation criteria based on Consistency with General Plan Goals	
	and Policies; Improvements in Transportation Service and Cost.	
	• Reviewed recommendations from the Lafayette Traffic Study.	
	Large-scale capacity improvements such as new roadways or	
	freeway ramps not considered.	
Options Considered	Adding a third, eastbound through lane on Mt. Diablo Blvd.	
•	between Oak Hill and Moraga Roads.	
	Add third lane and widen to accommodate two through lanes	
	and two right turn lanes at Mt. Diablo Blvd.	
	At Mt. Diablo Blvd. and Moraga Road:	
	 Provide three southbound lanes (one left, one through 	
	and one through-right)	
	 Provide two northbound right turn lanes by rebuilding 	
	and expanding Plaza Park; add a right-turn arrow,	
	prohibit RTOR for pedestrian safety	
	 Eliminate Plaza Drive and its on-street parking. 	
	Make Plaza Drive one-way	
	Cul de sac Plaza Drive at Moraga Road.	
	 Develop a bike path to divert bikes away from Mt. Diablo 	
	Blvd./Moraga Road along the EBMUD right-of-way	
	 Restrict left turns onto Moraga Blvd, either all or part time 	
	 Provide nedestrian crossing signal at Moraga Blvd 	
	 Prohibit all left turns from Moraga Road during neak periods at 	
	School/Brook intersections	
	Prohibit northbound left urns onto Brook and provide a	
	southbound left turn lane onto School: eliminate bike lanes on	
	Moraga Road	
	Provide southbound left turn lane onto School Street: eliminate	
	all left turns at Brook Street and consolidate all pedestrian	
	crossings to School Street. (removes signal at Brook St.)	
	 Provide both southbound and northbound left turn lanes on 	
	Moraga Road by removing bike lanes and widening the road by	
	demolishing the Masonic Hall and Town Hall Theater	

Document Name	Lafayette Downtown Feasibility Study / Lamorinda Transportation
	Improvement Program (Draft)
	Provide traffic signal at Hamlin Road and Tanglewood Drive
	Provide traffic signal at Silver Springs Road/Mtn. View Drive/Old
	Jonas Hill Road.
	Add a southbound, left turn lane at Madrone Drive and Moraga
	Road.
	Provide a continuous walkway on Moraga Road to Old Jonas Hill
	Road
	With new traffic signals add coordination and adjust signal timing
	on Moraga Road
	Preparing a comprehensive analysis of pedestrian and bicycle
	issues
Recommendations	1. At Mt. Diablo Blvd. and Moraga Road provide
	a. Three southbound lanes at Safeway Plaza
	b. Two northbound right turn lanes and rebuild and expand
	Plaza Park
	c. Three eastbound through lanes
	2. Provide the "Mt. Diablo Boulevard Bike and Pedestrian Trail;"
	3. Prohibit all left turns at all hours at Moraga Boulevard;
	4. Provide a pedestrian signal at Moraga Blvd.
	5. Prohibit all left turns at all hours at Brook Street;
	6. Modify the signal operation at Moraga Road/School Street and
	Brook Street to eliminate the Brook Street signal.
	7. Remove the bike lanes on Moraga Road, but keep space for
	bikes.
	8. Add bike signage to direct traffic to First Street path
	9. Consolidate all pedestrian crosswalks to School Street or keep
	existing with reduced traffic service
	10. Add a traffic signal at Silver Springs Road/Mt. View Drive/Old Jonas Hill:
	11. Complete the walkway on Moraga <i>Road</i> to Old Jonas Hill Road:
	12. Provide traffic signal coordination:
	13. Conduct pedestrian and bike route program including suggested
	route to school plan.
	14. Future comprehensive analysis of pedestrian and bicycle issues.
	15. Don't install a traffic signal at Hamlin/Tanglewood at this time.
	16. Southbound left turn lane at Madrone is not a high priority.
Community Response /	Additional analysis of recommendations was conducted later in the
Outcome	Lafayette Downtown Traffic Study for Moraga Road Corridor.
	Concern was raised about the loss of parking on Plaza Drive.
	Recommendations Implemented:
	#1a, 1b (park expansion only), 1c, 3 (full signal installed).
	# 5-6 were tested and not supported.

Document Name	Lafayette Downtown Feasibility Study / Lamorinda Transportation Improvement Program (Draft)	
	 #7, 11, 12, 15 were fully implemented. #8 and 16 were not implemented #9 was opposed by the public; #13 was partially implemented via updating the Downtown Feasibility Study, the Bikeways Master Plan, and the on-going demonstration SRTS analysis 	

		I I
Document Name	Lamorinda Traffic Study / Transportation Improvement Program (Final)	
Author	Barton-Aschman Associates. Inc.	
Date	August 1, 1994	
Summary Description	Purpose to address transportation problems with the Lamorinda	
	communities by identifying actions and measures to mitigate the	
	impacts of traffic congestion between Highway 24 and the Town of	
	Moraga.	
Themes	 Identification of existing transportation problem areas 	
	Identification of potential transportation strategies and programs	
	Adoption of the Lamorinda Transportation Improvement	
	Program (LTIP)	
	ITIP Implementation	
	Mitigation of traffic density between Moraga and SR-24	
Options Considered	Major Capital Improvement Program projects: Gateway	
	Extension the Bollinger Canyon Extension, the Pleasant Hill	
	Extension and the Moraga Road/Mt. Diablo Blvd. Bypass projects	
	 Projects reviewed for transportation related benefits, impacts 	
	and growth inducing potential.	
Recommendations	Identified several transportation projects including the extension of	
	Golden Gate Way to Moraga Road: addition of a new eastbound SR	
	24 off-ramp at First Street; extension of Oak Hill to Moraga Road;	
	extension of Pleasant Hill Road to Glenside; creation of a Glenside by-	
	pass and extension of Bollinger Canyon Road.	
	1. Develop Lamorinda School Bus Program	
	2. Increase CCCTA bus service	
	3. Provide BART shuttle bus service	
	4. Adopt standardized Lamorinda definitions of significant impacts	
	5. Develop a Lamorinda TDM program	
	6. Work with schools to stagger school start times	
	7. Review school boundaries to minimize trip lengths	
	8. Support independent carrier commuter bus service	
	9. Signalize Moraga Rd/Hamlin-Tanglewood intersection	
	10. Coordinate traffic signals on Mt. Diablo Blvd. and Moraga Rd.	
	11. Modify the right-turn lane from First St. to EB SR-24 on-ramp to	
	allow dual right turns.	
	a. With a through/right and a dedicated right lane; maintain	
	left turn from shopping center driveway	
	b. Exclusive northbound through, a through/right and	
	exclusive right-turn; Eliminate left turn from shopping	
	center drive and southbound left turn into office	
	development	
	12. Redesign the right-turn lane from SR-24 EB off-ramp to Oak Hill	
	with smaller curb radius	

Document Name	Lamorinda Traffic Study / Transportation Improvement Program	
	(Final)	
	13. Add a left-turn lane at Moraga Rd. and Madrone Dr.	
	14. Modify the Brook-School/Moraga Rd. intersection to separate	
	thru and left- turn movements on Moraga Rd.	
	a. Prohibit left turns from Moraga Road northbound, during	
	peak hours or	
	b. Prohibit left turns at Brook Street only and restripe	
	Moraga Rd. to provide a left turn lane at School St.	
	c. In addition to a., eliminate the Brook Street signal and	
	restrict turns to right in and out only; consolidate	
	pedestrian crossings at School St.	
	d. Provide side by side left turn lanes on Moraga Rd.	
	between Brook and School; requires widening roadway	
	and relocating bike lanes to the sidewalk; widen sidewalk	
	to 10 ft. on both sides. Requires relocation of Masonic	
	Hall and Town Hall Theater.	
	e. Realign Brook Street to intersect Moraga Rd. at School St.	
	to form a standard four-leg intersection;	
	i. requires roadway widening and removal of	
	Masonic Hall and four condos to the west or	
	ii. Alternatively Masonic Hall could be kept and its	
	parking area reconfigured with portion of former	
	Brook St.	
	15. Restrict left turn access at Moraga Rd. and Moraga Blvd.	
	16. Eliminate sub-standard bike lane on Moraga Rd.	
	17. Add a third eastbound through lane on Mt. Diablo between Oak	
	Hill and Moraga Rd. Widening can be minimized by eliminating	
	the westbound right-turn lane at Oak Hill, but only as a short	
	term option until gas station tanks can be removed.	
	18. Add carpool parking lots at:	
	a. Pleasant Hill at Olympic,	
	b. Pleasant Hill at Deer Hill,	
	c. Deer Hill north of BART, and	
	d. Lafayette Community Center	
	19. Conduct feasibility study and preliminary engineering of a project	
	to reduce traffic congestion in downtown Lafayette through the	
	Moraga Rd./Mt. Diablo Blvd. intersection	
Community Response /	Recommendations Implemented #1, 4, 5, 10. 11a. 12, 16, 17	
Outcome	(partially), 18d, and 19.	
	Tested recommendations 14 a and b.	
	Recommendations Not Implemented because outside of Lafavette's	
	control: 2, 3, 6-8	
	Recommendations not implemented due to lack of public support:	
	14, 15 18а-с.	

		1	
Document Name	Core Area Study in the City of Lafayette		
Author	TJKM Transportation Consultants		
Date	September 13, 1989		
Summary Description	Conducted a capacity analysis for Lafayette and Moraga existing and		
	plus approved projects conditions and identified mitigation measures		
	and cost estimates. Reviewed intersections throughout downtown		
	Lafayette and on Deer Hill Road.		
Themes	Evaluated existing traffic conditions and future land use impacts.		
	Used consultant's capacity analysis methodology		
Options Considered			
Recommendations	Adding additional travel and turn lanes; optimizing signal timing;		
	installing traffic signals.		
	1. Add northbound/southbound vehicle and ped phase at Mt.		
	Diablo and Mtn. View		
	2 At Mt. Diablo and Happy Valley, add easthound left turn lane and		
	ontimize signal timing At huild out: Add an exclusive SB left turn		
	and exclusive NB right turn.		
	3 At Mt. Diablo and Lafavette Circle add an exclusive northbound		
	right turn lane and an exclusive southbound through lane.		
	Optimize signal timing. At build out: add additional eastbound		
	through exclusive FB exclusive right turn lane		
	4 Mt. Diablo and Moraga Road: add additional easthound through		
	lane an exclusive northbound through lane and an exclusive		
	southbound right and left turn lanes. Add nedestrian phasing for		
	west leg of Mt. Diablo: ontimize signal timing		
	5 Mt. Diablo/Eirst St. add an evclusive right turn lane in the		
	westbound direction. Split the parth/south phases: optimize		
	cignal timing. At build out add evolusive porthbound right turn		
	lane to reduce overall intersection delay		
	6 Deer Hill /Hanny Valley Pd : install signal and add a southbound		
	left turn lane		
	7 Deer Hill /Oak Hill: Install a signal		
	7. Deer Hill/Odk Hill. Histali a signal.		
	8. Deer Hill/SR 24 Westbound Off-ramp: Install signal. At build out		
	through (left turn long and a right turn long		
	Chrough / left turn lane and a right turn lane.		
	9. Deer Hill/First St.: add an additional eastbound right turn lane.		
	Add an EB-WB left turn phase; optimize signal timing.		
	10. Woraga Rd./School St-Brook St.: Add exclusive left turn lanes NB,		
	SB and EB. Rephase timing to include NB/SB left turn phase, a		
	NB/SB through phase and an EB/WB phase. Eliminate the all		
	pedestrian phase and optimize signal timing.		
	11. Moraga Rd/St. Marys Road: Add an additional SB left turn lane.		
	Re-phase timing to include a NB/SB left turn phase, a NB/SB		
	through phase, an EB approach phase and a WB approach phase;		
	optimize signal timing.		

Document Name	Core Area Study in the City of Lafayette	
	12. Install interconnect conduit, etc. for Mt. Diablo Blvd. signal	
	system	
Community Response /	Recommendations Implemented: 1, 2 & 3 (partially), 4, 5 (partially),	
Outcome	8, 9, 12.	
	Likely lack of community support for 10 and 11 an	

Document Name	City of Lafayette Traffic Safety Study	
Author	Omni-Means, Ltd.	
Date	no date (est. 1986–1988)	
Summary Description	Conducted peak hour counts at six intersections along Moraga Road between Mt. Diablo Boulevard and Sky-Hy Drive; identified high accident areas and analyzed and recommended safety and operation improvements; reviewed alternative solutions; developed a schedule and cost estimates.	
Themes	 Moraga Road within the City limits Traffic a result of traffic focused on a few arterial streets Effects of Future Traffic Growth: greater potential for through traffic increases as a result of Moraga's development than Lafayette's Further growth in through traffic will probably result in severe congestion and delay at virtually all of the key intersections along the corridor. Detailed Accident/Operations Analysis based on SWITRS 1980-88. 	
Options Considered	 Identified a list of locations most in need of investigation due to collision history. Operational difficulties at: Moraga Rd./Moraga Blvd. due to long delays turning out of Moraga Blvd. and southbound left turns onto Moraga Blvd.; Moraga Rd./Brook-School Sts. due to back up caused by vehicles waiting to make left turns; Moraga Rd./Hamlin Rd. due to long delays turning out of Hamlin and southbound left turns onto Hamlin Rd. Moraga Rd./Old Mtn. View Dr. due to delay from vehicles turning out of Old Mtn. View Dr. Assessment of signal warrants at unsignalized intersections (none met) Remove curb parking and bike lane to create southbound left turn lanes on eastbound Brook. Modify signal control on Brook st. to accommodate right and left turn lanes on eastbound Brook. Modify signal control to provide two separate pedestrian phases for Brook and School Sts. to allow minor street traffic to proceed when the other street pedestrian phase is activated. Prohibit left turns from Moraga Rd. onto Brook and School Sts. during AM and PM peak. 	

Document Name	City of Lafayette Traffic Safety Study	
	half circle driveway to increase parking spaces, then remove	
	some of the parking spaces along the driveway to create	
	dedicated passenger loading/unloading zone.	
	• Add 1-2 seconds of all red to increase clearance time for left-turn	
	motorists before through traffic proceeds.	
	• Widening of Moraga Road at Madrone Dr. to provide an inbound	
	left turn lane.	
	• Remove Moraga Rd. bike lanes due to insufficient width.	
	• New shoulder areas could be created on Moraga Road's winding	
	section by installing drain pipe and covering it.	
Recommendations	Installation of striping and guard rail; roadway widening to	
	accommodate left-turn pockets and additional travel lanes; pruning	
	to improve sight distance; lane re-assignments at Brook Street;	
	modifications to the Lafayette Elementary School Parking lot; left-	
	turn prohibitions; realignment of the Moraga Road/School	
	Street/Brook Street intersection; install overhead street lighting	
	where missing; and improved demarcation of pedestrian shoulder	
	area.	
	1. At Madrone Drive:	
	a. Install edge delineators around the curve;	
	b. Trim vegetation;	
	c. Install guard rail;	
	d. Widen to accommodate inbound left-turn	
	2. At Tanglewood/Hamlin:	
	a. Trim vegetation;	
	b. Lengthen southbound left-turn lane in Hamlin to increase	
	storage length	
	3. At St. Mary's Rd.:	
	a. Extend the white strip for the southbound left turn to the	
	north to alert drivers to merger sooner.	
	4. At Brook –School Streets:	
	a. Modify eastbound Brook to accommodate separate right	
	and left turn lanes	
	b. Revise Lafayette School access by designating 3-4	
	passenger loading spaces along the inside curb of the	
	driveway	
	c. Restripe the schools existing north end of the parking lot	
	to accommodate more venicles.	
	 prohibit left turns from Moraga Road during AM and pM peak periods. 	
	e. Restripe Moraga Road to allow one left turn lane at	
	either Brook or School Streets	
	f. Widen Moraga Road without bike lanes to allow side by	
	side left turn lanes for School and Brook Sts.	
	g. Purchase right-of-way and totally reconstruct streets to	
	provide an aligned four-way intersection	

Document Name	City of Lafayette Traffic Safety Study	
	h. Remove the traffic signal at Brook and restrict access to	
	right turns only.	
	5. Remove bike lanes and direct bicycle travel to the parallel route	
	on First St.	
	6. Widen Moraga Road to accommodate four travel lanes plus	
	Caltrans bike lanes.	
	7. Widen Moraga Road at select locations from St. Mary's Rd south	
	past Madrone Drive and install a two-way left turn lane to	
	provide easier access into and out of private driveways;	
	8. Install overhead street lighting along the entire two lane section	
	of Moraga Road in addition to what is already present.	
Community Response /	Recommendations implemented: #1a-c, 2a, 3a, 4b and 5	
Community Response / Outcome	Recommendations implemented: #1a-c, 2a, 3a, 4b and 5 Recommendations tested: 4d	
Community Response / Outcome	Recommendations implemented: #1a-c, 2a, 3a, 4b and 5 Recommendations tested: 4d Unsure if implemented: 2b, 4c	
Community Response / Outcome	Recommendations implemented: #1a-c, 2a, 3a, 4b and 5Recommendations tested: 4dUnsure if implemented: 2b, 4cRecommendations not implemented: 4a, 4e-h and 6-8	
Community Response / Outcome Information of Note	Recommendations implemented: #1a-c, 2a, 3a, 4b and 5Recommendations tested: 4dUnsure if implemented: 2b, 4cRecommendations not implemented: 4a, 4e-h and 6-8Comparison of ADT Volumes	
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Community Response / Outcome Information of Note	Recommendations implemented: #1a-c, 2a, 3a, 4b and 5Recommendations tested: 4dUnsure if implemented: 2b, 4cUnsure if implemented: 2b, 4cRecommendations not implemented: 4a, 4e-h and 6-8Comparison of ADT VolumesImplemented: 4a, 4e-h and 6-8Location:19892008Moraga Rd. south of City limits14,05715,500Moraga Rd. south of Herman Rd.16,60014,100Moraga Rd. south of Moraga Blvd.22,70020,800 (2009)	
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