

CIRCULATION AND COMMUNITY MOBILITY ELEMENT



Over the past seventy years, the physical, social and economic success Riverside has experienced can be attributed in part to the City's transportation network and the tremendous mobility it has afforded. The freeways, streets, bike paths, railways and airports that provide circulation within the City and access to points beyond have transformed Riverside from a relatively isolated agricultural community to a major city that serves as the hub of the Inland Empire.

Riverside's growth has resulted in many beneficial effects, principally the development of industries and businesses that provide jobs and economic stability, creation of housing units affordable to a broad range of household incomes, the growth of educational institutions and the vibrancy that results from a diverse, multi-ethnic community. However, the same transportation network has also created adverse side effects: traffic congestion due to regional travel patterns, increased pollutant emissions, dispersed land use patterns and the stress of commuting.

This Circulation and Community Mobility Element recognizes the ability of our transportation network to serve our needs and shape our community in positive ways, and to allow us to effectively use alternatives to the private automobile to reach our destinations within Riverside and the region.

More than 400 Riverside residents attended the September 2003 and June 2004 Citizens' Congress for the General Plan and took the opportunity to provide hundreds of comments on traffic and mobility issues in Riverside. Managing traffic and improving all forms of mobility represent key objectives for the community.

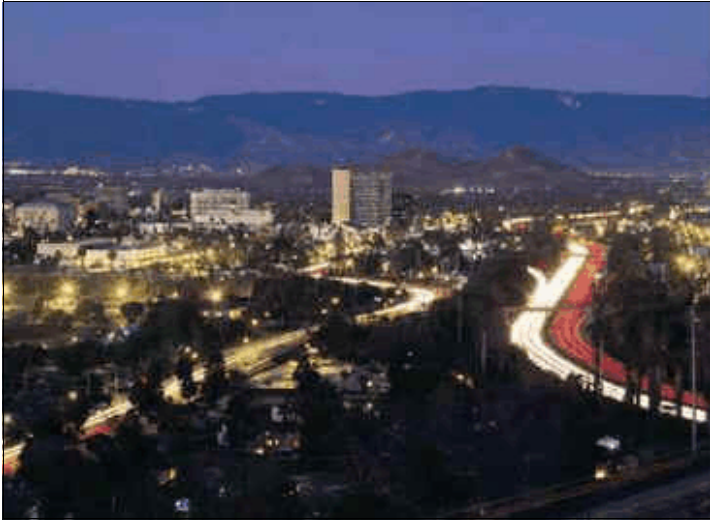
THE GROWTH CHALLENGE

"If you build it, they will come." This oft-quoted line from a movie about a baseball diamond in an Iowa cornfield may seem out of place in this Circulation and Community Mobility Element, but the idea has meaning in a transportation planning context. Indeed, by increasing the capacity of a roadway, more travelers can be expected to use that roadway. However, a corollary phrase applicable to Riverside and the Inland Empire is, "If you don't build it, they will come anyway." The Southern California Association of Governments (SCAG) forecasts that Riverside County's population will increase by sixty-two percent between 2000 and 2025. During the same period, the City's population is expected to grow by twenty-five percent, reaching well over three hundred fifty thousand people. Regional growth will significantly impact the circulation network in and through Riverside.





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In the past, solutions to traffic congestion have focused on building wider streets and improving freeway capacity. At best, this has proved to be a temporary solution. Many transportation plans of the 1960s look almost comically naïve today, promising that expanded roadway facilities will ensure a future of traffic-free, effortless commuting.

Today, transportation planners recognize and understand the phenomenon of "induced demand." The induced demand principle holds that expanded and freer-flowing roadways will only encourage greater roadway use. Major roadway expansions tend to open new areas for development, encouraging

further sprawl beyond urban centers and putting even more demand on roads. Humorists have noted that trying to solve traffic congestion in a growing region by adding or widening roadways is akin to trying to lose weight by buying larger clothes.

In a study prepared by the Texas Transportation Institute ([2004 Urban Mobility Report](#)) Riverside/San Bernardino Counties were ranked the ninth worst traffic area in the nation. The report estimates that the Inland Empire needs an additional 78 miles of highways and surface streets each year and enough mass transit to serve an additional 100,000 riders annually to keep congestion from worsening.

In a separate report, the annual U.S. Census Bureau Survey found that Riverside County residents spend 30.8 minutes getting to work, ranking us 18th among 233 counties nationwide for commute trip time.

Like many cities throughout California, Riverside has reached a point where few or no feasible opportunities exist to add or expand roadways due to fiscal, political, environmental and other constraints. Long-planned roadway improvements which do need to be implemented include the extension of Overlook Parkway and the widening of Alessandro Boulevard to six lanes. However, even if Riverside could somehow stabilize its population at the year 2004 of about two hundred seventy-five thousand residents, growth in the surrounding region would march ahead and would continue to load more cars and trucks onto the City's street system. Traffic, like water, seeks the path of least resistance, and any traffic impeded on the SR-91, SR-60, and I-215 freeways will continue to flow onto the City's local streets.

A mobility strategy that focuses on service improvements such as roadway widening, intersection expansions and new roads will inevitably result in more regional cut-through traffic without a proportional benefit to local residents. Circulation and mobility strategies must be comprehensive to overcome the City's long-term transportation challenges. This General Plan — and its two keystone elements, Circulation and Community Mobility and Land Use and Urban Design — provide such comprehensive strategies.



RESPONDING TO THE CHALLENGE: A COMPREHENSIVE APPROACH TO MOBILITY

The major principles underlying this General Plan are focusing future development near existing transportation corridors, ensuring land uses are supported by an efficient local roadway network, embracing innovative solutions to congestion on freeways and regional arterials, supporting alternative modes of transportation such as walking, biking and transit and ensuring that transportation options are maximized for all community members as necessary components of an effective and safe circulation system for Riverside.

Traffic congestion is sometimes seen as a phenomenon that must be eliminated, no matter what the cost. However, from another perspective, congestion can also be an acknowledgment that the City is a desirable place to live, work, learn and play. This Plan seeks to find a balance between the City's mobility needs while preserving and enhancing the qualities that make Riverside so desirable. No plan can promise a future free of traffic congestion, particularly when regional population growth — over which the City has no control — will increase the number of vehicles on the local road network. However, this Circulation and Community Mobility Element reflects a major paradigm shift: Riverside will indeed make modest expansions to the local circulation system but more importantly, will make far more efficient use of the existing circulation system. In this manner, the City will aim to minimize the effect of increased traffic over time.

HOW WE PLAN TO GET AROUND

To implement the improvements required to mitigate all existing and future traffic within the City would require the construction of facilities on such a large scale the effect would be to destroy the qualities so treasured about the community. Such a strategy is a recipe for urban sprawl. The choice is clear: allow growth to shape our City, or through implementation of this General Plan, enable the City to shape its growth.

The Land Use and Urban Design Element directs a larger proportion of the anticipated population growth to infill sites along already established transportation corridors, particularly Magnolia Avenue and University Avenue. Much of this infill development will take the form





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See the Land Use and Urban Design Element under “The Built Environment – Growing Smarter” for the strategies Riverside is pursuing to achieve “smart growth” goals and to coordinate land use and circulation planning.

In particular review Objectives LU-8, LU-9 and LU-10.

of mixed-use projects that combine residential uses with retail or office uses. Such development will be planned carefully and offer opportunities for residents to access shops and services without the constant need to use their cars. Such planning is the essence of "smart growth."

Interconnectivity of land uses, coupled with the provision of adequate pedestrian and bicycle facilities, is an important component of Riverside's future circulation network. The City's expanded pedestrian and bike path network will provide connections between schools, activity centers, parks and residential areas.

With population growth focused along the City's major corridors, bus rapid transit (BRT) service will connect the major employment and education centers to areas projected for mixed-use and higher-density residential development. The maxim holds: Mass transit requires a certain degree of "mass" to be functional. Sprawling development can rarely be well-served by public transit of any form.

On a larger scale, the Metrolink San Jacinto Line will be operational, extending commuter train service along the busy I-215 corridor. The train will offer service to the City's major destinations, including UCR and Downtown, and will also provide an alternative to crowded westbound freeways for Riversiders and those living south along the I-215 corridor.

With smart growth, adequate and viable pedestrian and bicycle trails and support of local and regional transit expansion, Riversiders in 2025 will have viable mobility alternatives to the private automobile.

When we think of transportation, we tend to focus primarily on personal travel. However, the scope of this Element also encompasses air travel, as well as the movement of goods and freight. As we move toward 2025, the key anticipated change relative to air travel will stem from the development of the Inland Cargo Port alongside March Air Reserve Base. Although the MARB facility is located just outside the City of Riverside, the implementation of air cargo operations here will lead to increased use of railways and freeways traversing the City. By the same token, air cargo operations are forecasted to have positive economic development impacts, particularly in the City's business parks.

Riverside Municipal Airport will see relatively stable levels of air traffic, but increased business development in the immediate vicinity.

The movement of freight through Riverside will continue to be primarily via trucks using the City's arterials and freeways, but a substantial portion will use railways. Riverside will continue to aggressively seek



funding opportunities to reduce the number of at-grade crossings throughout the City to mitigate existing conflicts and anticipate rail traffic associated with the Alameda Corridor East project. At-grade crossings typically require all street traffic in the vicinity to come to a halt; when grades are separated, trains can move without interrupting traffic flow on the City's streets.

THE REGIONAL CONTEXT

Transportation planning cannot be considered separately from the regional context. This General Plan is designed to maximize Riverside's power to affect positive change within its boundaries, as well as to positively influence what goes on beyond the City's boundaries. Several transportation plans prepared by the Southern California Association of Governments (SCAG), the County of Riverside and the Riverside County Transportation Commission (RCTC) focus on the regional transportation system. Other plans have also been prepared to locate future routes for mass transit, including rail and express bus service. The best way to maximize transportation choice in Riverside's future is to integrate local transportation planning with regional efforts.

REGIONAL TRANSPORTATION PLANS

The *Regional Transportation Plan (RTP)* is a component of the *Regional Comprehensive Plan and Guide* prepared by SCAG to address regional issues and establish goals, objectives and policies for the Southern California region into the early part of the twenty-first century. The RTP, which SCAG updates on a regular basis to address changing conditions in the southland, has been developed with active participation from local agencies throughout the region, elected officials, the business community, community groups, private institutions and private citizens. The RTP sets broad goals for the region and provides strategies to reduce problems related to congestion and mobility. RTP goals relevant to Riverside include:

- ❖ Improving the levels of service for the movement of people and goods
- ❖ Ensuring that transportation investment provides the greatest possible mobility benefit
- ❖ Serving the transportation needs of everyone
- ❖ Developing regional transportation solutions that complement subregional transportation systems and serve the needs of cities and communities





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Riverside County Integrated Project and CETAP

In 2003, the County of Riverside completed a comprehensive planning program, called the Riverside County Integrated Project, or RCIP, that included a coordinated regional transportation planning effort: the Community and Environmental Transportation Acceptability Process (CETAP). CETAP led to the identification of potential transportation corridor routes in western Riverside County that will benefit commuters and serve the County's growing economy. The Mid County Parkway (formerly known as the Ramona Expressway/Cajalco Road Corridor) that traverses the southern portion of the City's planning area (discussed below) is a CETAP alternative that is projected to relieve congestion on SR-91 heading through Riverside and offer an alternative to the 60/215/91 interchange for regional commuters.

County of Riverside Congestion Management Plan

See the "Performance Criteria" section of this Element for a discussion of Level of Service.

Urbanized areas such as Riverside County are required by State law to adopt a Congestion Management Plan (CMP). The goals of the CMP are to reduce traffic congestion and to provide a mechanism for coordinating land use development and transportation improvement decisions. Local agencies are required to establish minimum level of service (LOS) thresholds in their general plans and conduct traffic impact assessments on individual development projects. Deficiency plans must be prepared when a development project would cause LOS "F" on non-exempt CMP roadway segments. The deficiency plans outline specific mitigation measures and a schedule for mitigating the deficiency.

Western Riverside County Transportation Uniform Mitigation Fee (TUMF)

In 2002, the jurisdictions of Western Riverside County, including the cities of Riverside, Corona, and Moreno Valley and Riverside County, agreed to participate in the Western Riverside County Transportation Uniform Mitigation Fee, or TUMF, program. TUMF is a multi-jurisdictional impact fee program that funds transportation improvements associated with new growth. All new development in each of the participating jurisdictions is subject to TUMF, based on the proposed intensity and type of development. Riverside's participation in this program constitutes an important step toward making needed improvements to the regional transportation system.





MASTER PLAN OF ROADWAYS

The City of Riverside contains more than seven hundred fifty miles of surface streets (under the jurisdiction of the City) and thirty miles of freeway lanes (under the jurisdiction of State of California).

REGIONAL ROADWAY NETWORK

Several freeways traverse the Riverside planning area (Figure CCM-1, Regional Road Network): SR-91, a major east-west inter-regional facility that extends from the beach cities in Los Angeles County to SR-60 to the east; SR-60, connecting downtown Los Angeles to the Inland Empire; and I-215, a north-south interstate route that provides access to Temecula and San Diego County.

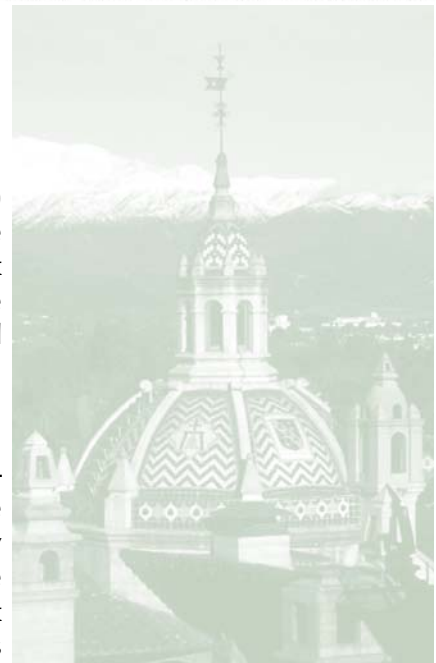
Improvements planned for the freeways include high-occupancy vehicle lanes, auxiliary and truck climbing lanes, interchange upgrades and reconstructions and limited areas of additional mixed-flow lane additions. These are described in SCAG's RTP.

Caltrans, the RCTC and the Federal Highway Administration (FHWA) are working in partnership to complete improvements to the 60/91/215 interchange and segments of each of the freeways that serve it. This project, costing more than \$317 million, represents one of the largest and most complex transportation projects in the Inland Empire. Caltrans also plans to improve the Van Buren Boulevard/I-215 interchange.

The Mid County Parkway (formerly known as the Ramona Expressway/Cajalco Road Corridor) is a CETAP Alternative of the Riverside County Integrated Project. This planned roadway will roughly follow the existing Cajalco Road between I-215 to I-15, south of Lake Mathews. Another possible corridor is the "Two-County Corridor" that would ultimately connect the SR-60/I-215 interchange in Box Springs



Figure CCM-1
REGIONAL ROAD NETWORK





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(at the west end of Moreno Valley) with Barton road, connecting to I-10 via existing planned California Street. These routes will relieve congestion on SR-91 heading through Riverside and offer alternatives to the 60/215/91 interchange for regional commuters.

The Mid County Parkway has the potential to be extended farther east, across I-15 and through the Cleveland National Forest, providing an additional connection to Orange County besides the overburdened SR-91 freeway. The project, if pursued, would connect at the SR-241 toll road in unincorporated Orange County north of the city of Irvine. The City will continue to support the development of this connection and other efforts by Caltrans, RCTC and FHWA to improve regional circulation.

REGIONAL ROADWAY OBJECTIVES AND POLICIES

See the Air Quality Element under “Transportation” for more information on regional transportation efforts.

In particular review Objective AQ-2.

Objective CCM-1: Facilitate freeway and regional roadway improvements and construction to alleviate congestion and air pollution and to minimize regional cut-through traffic within Riverside.

Policy CCM-1.1: Support development of CETAP corridors, including the Mid County Parkway (formerly known as the Ramona Expressway/Cajalco Road Corridor) and the Two-County Corridor from Riverside to San Bernardino County.

Policy CCM-1.2: Support the addition of capacity improvements to SR-91, SR-60, I-215 and I-15.

Policy CCM-1.3: Support the development of a new regional roadway facility linking Riverside County with Orange County.

Policy CCM-1.4: Support improvement of the Van Buren Boulevard/I-215 interchange and along the length of Van Buren Boulevard between I-215 and SR-91.

See the Land Use and Urban Design Element under “The built Environment – Parkways – Van Buren Boulevard” for more information on Van Buren Boulevard.

In particular review Objective LU-15.

LOCAL ROADWAY NETWORKS

Riverside has defined the roadway system using a series of functional classifications. The functional and cross sections classifications are depicted in Figure CCM-2 (Standard Roadway Cross Section). The City's existing circulation system consists of the following functional classifications.



Local Streets

Local Streets principally provide vehicular, pedestrian and bicycle access to property directly abutting the public right-of-way, with movement of through traffic discouraged. Local streets are designated to be thirty-six feet wide curb to curb within a sixty-six-foot right-of-way and have two through lanes (one in each direction).

Collector Streets

Collector Streets are intended to serve as intermediate routes to handle traffic between Local Streets and streets of higher classification. Collector Streets also provide access to abutting property and are two lanes in width. Collector Streets may handle some localized through traffic from one local street to another; however, their primary purpose is not to provide for through traffic but to connect the local street system to the arterial network.

The City has two Collector Street widths, the first designated to be forty feet wide curb to curb within a sixty-six-foot right-of-way, and the second also measuring forty feet wide curb to curb but within an eighty-foot right-of-way.

Arterial Streets

Arterial Streets carry through traffic and connect to the state highway system with restricted access to abutting properties. They are designed to have the highest traffic carrying capacity in the roadway system with the highest speeds and limited interference with traffic flow by driveways. Riverside has five Arterial classifications:

- ❖ Eighty-eight feet of right-of-way with sixty-four feet of paving and four lanes
- ❖ One hundred feet of right-of-way with eighty feet of paving, a raised median and four lanes
- ❖ One hundred ten feet of right-of-way with eighty-six feet of paving, a raised median and four lanes
- ❖ One hundred twenty feet of right-of-way with one hundred feet of paving, a raised median and six lanes
- ❖ One hundred forty-four feet of right-of-way with one hundred twenty-four feet of paving, a raised median and eight lanes





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Figure CCM-2 – Standard Roadway Cross Section





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Some of the roads are designated as scenic boulevards and/or parkways; these require special landscaping and additional right-of-way may be required. There are also several special boulevards which have a two lane divided roadway of variable geometric design.

To ensure safety on arterials, all new developments abutting an arterial will should avoid front-on development. The development should be designed with reverse frontage and/or side frontage lots pursuant to Title 18.

PERFORMANCE CRITERIA

Level of Service (LOS) is a qualitative measure describing the efficiency of traffic flow. LOS describes the way such conditions are perceived by persons traveling in a traffic stream, with LOS measurements accounting for such variables such as speed and travel time, freedom to maneuver, traffic interruptions, traveler comfort and convenience and safety.

Measurements are graduated ranging from LOS A, representing free flow and excellent comfort for the motorist, passenger or pedestrian, to LOS F, reflecting highly congested traffic conditions where traffic volumes approach or exceed the capacities of streets. LOS definitions are provided in Table CCM-1 (Level of Service Definitions).

LOS can be determined for all types of transportation facilities. The City will strive to maintain LOS D or better on arterial streets wherever possible. At some key locations, such as City arterial roadways which are used as a freeway bypass by regional through traffic and at heavily traveled freeway interchanges, LOS E may be acceptable as determined on a case-by-case basis. Locations that may warrant the LOS E standard include portions of Arlington Avenue/Alessandro Boulevard, Van Buren Boulevard throughout the City, portions of La Sierra Avenue and selected freeway interchanges. A higher standard, such as LOS C or better, may be adopted for Local and Collector streets in residential areas.

The City recognizes that along key freeway-feeder segments during peak commute hours, LOS F may be expected due to regional travel patterns.

Arterials will be designed with sufficient capacity to accommodate anticipated traffic based on intensity of existing and planned land uses while discouraging additional non-local cut-through traffic on City streets.





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TABLE CCM-1
LEVEL OF SERVICE DEFINITIONS

LOS	Interpretation	Signalized Intersection Delay (seconds per vehicle)	Stop-Controlled Intersection Average Stop Delay (seconds)
A	Excellent operation. All approaches to the intersection appear quite open, turning movements are easily made and nearly all drivers find freedom of operation.	<10	<10
B	Very good operation. Many drivers begin to feel somewhat restricted within platoons of vehicles. This represents stable flow. An approach to an intersection may occasionally be fully utilized and traffic queues start to form.	>10 and <20	>10 and <15
C	Good operation. Occasionally backups may develop behind turning vehicles. Most drivers feel somewhat restricted.	>20 and <35	>15 and <25
D	Fair operation. There are no long-standing traffic queues. This level is typically associated with design practice for peak periods.	>35 and <55	>25 and <35
E	Poor operation. Some long-standing vehicular queues develop on critical approaches.	>55 and <80	>35 and <50
F	Forced flow. Represents jammed conditions. Backups from locations downstream or on the cross street may restrict or prevent movements of vehicles out of the intersection approach lanes; therefore, volumes carried are not predictable. Potential for stop-and-go type traffic flow.	>80	>50

Source: Highway Capacity Manual 2000, Exhibit 16-2 and Exhibit 17-2.

GENERAL PLAN ROADWAY SYSTEM

In keeping with the principle of making better use of Riverside's existing circulation network rather than facilitating regional growth and development at the urban fringe, this Plan proposes relatively few changes to the City's existing circulation network. Further, extensive expansions of the local roadway network would only provide outlets for additional regional cut-through traffic trying to avoid freeways. A factor that complicates circulation planning in Riverside is that the local roadway network, with several notable exceptions, tends to operate at reasonable levels of service. The regional roadway network, by contrast, tends to operate much more poorly. If the City were to increase capacity through extensive road widenings or new connections, any increased capacity would be quickly absorbed by regional traffic that moves daily through Riverside. Thus, this Plan must seek to meet local mobility needs without opening the floodgates to regional traffic.

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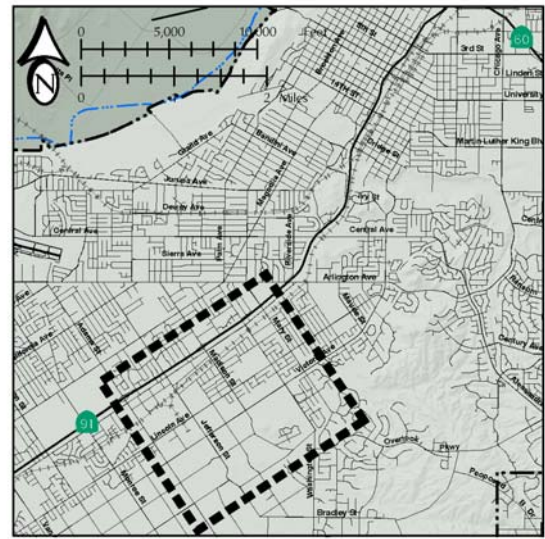


As of 2004, the circulation network set forth in the 1994 General Plan had not yet been completed. Key features of the 1994 General Plan not constructed as of 2004 include the linkage of Overlook Parkway (connecting the Alessandro Heights and Canyon Crest neighborhoods) and the addition of lanes to Alessandro Boulevard and Van Buren Boulevard. This Circulation and Community Mobility Element includes a Master Plan of Roadways with the following major features:

- ❖ Completion of the 1994 Circulation Element, with the exception of Magnolia Avenue/Market Street, which will be downgraded from six travel lanes to four, except where six lanes exist (near Tyler Street) or are preserved to accommodate future transit, including Bus Rapid Transit (BRT).
- ❖ Addition of a two-lane connector road as an extension of Overlook Parkway westerly from Washington Street, providing access to SR-91, the specific alignment of which will be defined by a detailed study with a focus area spanning from Dufferin Avenue to SR-91, and from Adams Street to Mary Street.
- ❖ Widening of Alessandro Boulevard and Arlington Avenue from four to six travel lanes between the I-215 and the SR-91.

By avoiding the creation of major new transportation corridors, these relatively modest changes to the local roadway network will reduce opportunities for urban sprawl by helping to focus future development on already existing travel corridors instead of the City's periphery. Further, these few changes are not anticipated to induce significant additional regional traffic in the City.

They are, however, critically important to serving local traffic demand. In particular, a 2004 preliminary study indicated the proposed two-lane road (120-feet of right-of-way built with only two travel lanes) that would connect the western end of Overlook Parkway to SR-91 would be primarily local serving, provided the width of any new Overlook Parkway bridge over the arroyo is limited to two travel lanes total. Notably, this Plan sets forth a policy that prohibits any such connector related to the extension of Overlook Parkway from degrading Level of Service on Victoria Avenue below LOS D.



OVERLOOK CONNECTION
STUDY AREA

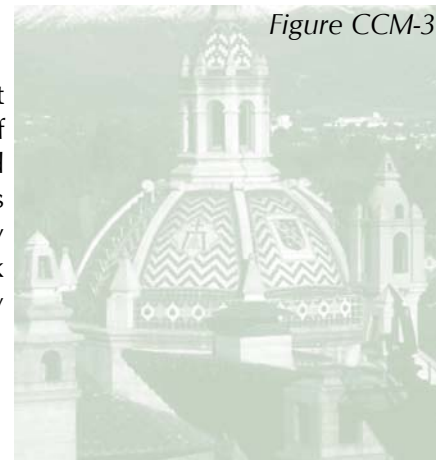


Figure CCM-3



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See the Air Quality Element under “Transportation” for more information on this topic.

In particular review Objective AQ-2.

Objective CCM-2: Build and maintain a transportation system that combines a mix of transportation modes and transportation system management techniques, and that is designed to meet the needs of Riverside’s residents and businesses, while minimizing the transportation system’s impacts on air quality, the environment and adjacent development.

Policy CCM-2.1: Complete the Master Plan of Roadways shown on Figure CCM-4 (Master Plan of Roadways).

Policy CCM-2.2: Balance the need for free traffic flow with economic realities and environmental and aesthetic considerations, such that streets are designed to handle normal traffic flows with tolerances to allow for potential short-term delays at peak-flow hours.

Policy CCM-2.3: Maintain LOS D or better on Arterial Streets wherever possible. At key locations, such as City Arterials that are used by regional freeway bypass traffic and at heavily traveled freeway interchanges, allow LOS E at peak hours as the acceptable standard on a case-by-case basis.

Policy CCM-2.4: Minimize the occurrence of streets operating at LOS F.

Policy CCM-2.5: Review and update street standards as necessary to current capacity and safety practices.

Policy CCM-2.6: Consider all alternatives for increasing street capacity before widening is recommended for streets within existing neighborhoods.

Policy CCM-2.7: Limit driveway and local street access on Arterial Streets to maintain a desired quality of traffic flow. Wherever possible, consolidate driveways and implement access controls during redevelopment of adjacent parcels.

Policy CCM-2.8: Design street improvements considering the effect on aesthetic character and livability of residential neighborhoods, along with traffic engineering criteria.





Figure CCM-4 - Master Plan of Roadways (11"x 17")





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Policy CCM-2.9: Design all street improvement projects in a comprehensive fashion to include consideration of street trees, pedestrian walkways, bicycle lanes, equestrian pathways, signing, lighting, noise and air quality wherever any of these factors are applicable.

Policy CCM-2.10: Emphasize the landscaping of parkways and boulevards.

Policy CCM-2.11: Consider the use of special design traffic control devices which reflect the historic or aesthetic character of the neighborhoods in which they are located.

Policy CCM-2.12: Consider connecting Local Streets at strategic locations to accommodate residential neighborhood traffic movement, provided such connections do not encourage diversion of regional trips, do not impact sensitive environments, or do not disrupt the character of residential neighborhoods. Construct the following connections:

- ❖ Connect the two ends of Berry Road
- ❖ John F. Kennedy Drive between Dauchy Avenue and Louis Pasteur Drive
- ❖ Dauchy Avenue or another Local Street between John F. Kennedy Drive and Roberts Road
- ❖ Barton Street between Alessandro Boulevard and Grove Community Drive
- ❖ Connect the two ends of Iris Avenue
- ❖ Roberts Road between John F. Kennedy Drive and Bradley Street as a local street.

Policy CCM-2.13: Support the establishment of additional east-west connections southerly of Van Buren Boulevard between Barton Road and Washington Street.

Policy CCM-2.14: Ensure that intersection improvements on Victoria Avenue are limited to areas where Level of Service is below the City standard of D. Allow only the minimum necessary improvements in recognition of Victoria Avenue's historic character.

See the Land Use and Urban Design Element under "The built Environment - Parkways - Van Buren Boulevard" for more information on Victoria Avenue.

In particular review Objective LU-11.



Policy CCM-2.15: Limit lot development to reverse frontage and/or side-on lots on all arterials pursuant to Title 18.220.090.

Objective CCM-3: Design the Magnolia Avenue/Market Street Corridor as a transit- and pedestrian-oriented Mixed Use boulevard.

Policy CCM-3.1: Limit Magnolia Avenue to four travel lanes south and west of Arlington Avenue while maintaining the six-lane right-of-way.

Policy CCM-3.2: Consider the implementation of off-street shared parking with parking signage improvements, consolidation of driveways, installation of raised landscaped medians, bus turnouts, traffic signal enhancements, special pavement treatments at pedestrian crossings and intersections, curb extensions, signalized/enhanced crosswalks, wider sidewalks and other appropriate measures which enhance traffic flow, transit efficiency and pedestrian movements.

See the Land Use and Urban Design Element under “The Built Environment – Parkways – Magnolia Avenue” for more information on Magnolia Avenue.

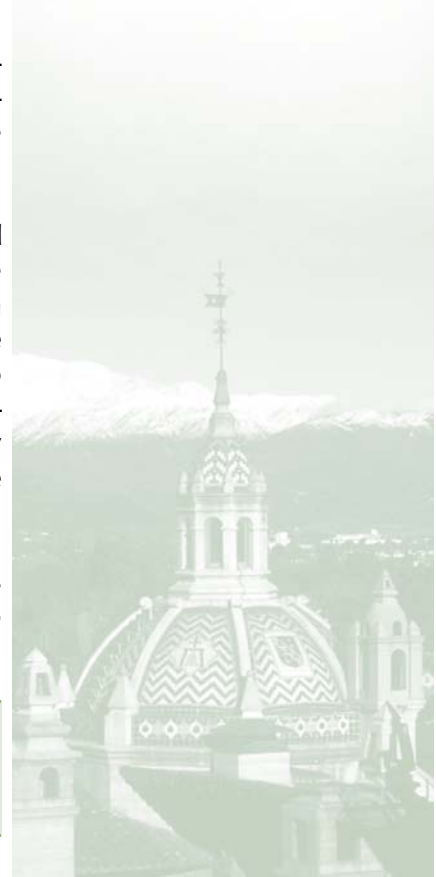
In particular review Objective LU-10.

Policy CCM-3.3: Upgrade and improve key bottlenecks at intersections via the addition of turn-out lanes, with transition back to the original number of lanes at the mid-block as feasible.

Policy CCM-3.4: Seek opportunities to enhance mobility on parallel and connecting Arterial and Collector Streets in the Magnolia/Market corridor to relieve congestion and to allow for implementation of the mixed-use corridor plan. These could include changes to traffic control (stop signs and traffic signals), elimination of cross-gutters, parking removal, driveway consolidation or limited roadway widening where feasible.

Policy CCM-3.5: Apply neighborhood traffic control measures as warranted on the parallel local residential streets to limit cut-through, non-local traffic.

Objective CCM-4: Provide a connection between Washington Boulevard and SR-91 via an extension of Overlook Parkway.





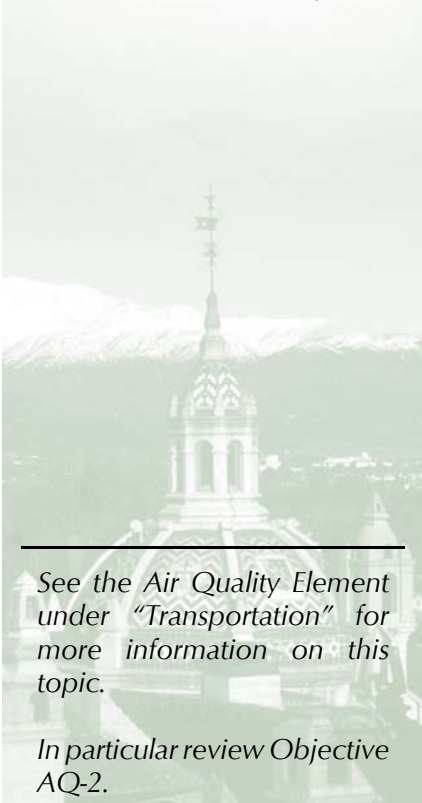
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See the *Land Use and Urban Design Element* under “The Built Environment – Parkways – Overlook Parkway” for more information on Overlook Parkway.

In particular review Objective LU-15



Victoria Avenue functions as more than a roadway. This linear park has a well-maintained Class I bike-way that allows people to experience the beauty and heritage of Riverside at a comfortable pace.



See the *Air Quality Element* under “Transportation” for more information on this topic.

In particular review Objective AQ-2.

Policy CCM-4.1: Limit the Overlook Parkway completion over the arroyo to a two-lane roadway within a one-hundred-ten-foot right-of-way.

Policy CCM-4.2: The Overlook Parkway bridge shall not be completed until a detailed specific plan level and routing study has been adopted. The boundaries of the study area shall be Mary Street, Adams Street, Dufferin Street, and SR-91. See Figure CCM-3 for a map of the study area.

Policy CCM-4.3: Ensure that LOS D or better is maintained along Victoria Avenue for intersections related to the Overlook Parkway extension. For more information on Victoria Avenue see LU-11 and CCM-2.14.

Policy CCM-4.4: Prohibit the removal of the Crystal View Terrace barrier prior to construction of the Overlook Parkway bridge across the Alessandro Arroyo.

COOPERATIVE IMPLEMENTATION

Mobility and traffic conditions in Riverside are directly related to the regional transportation network. City infrastructure accommodates regional through traffic originating from other communities via the I-215, I-15, SR-91, and SR-60 freeways. A healthy local economy depends on the ability of businesses to move their goods and the ability of employees living throughout the region to get to and from employment locations in Riverside.

The City's mobility needs and issues are inextricably and critically connected to those of surrounding jurisdictions, the region and the State. No city, particularly one with Riverside's major regional facilities, can proceed independently with transportation planning. Cooperative implementation of regional and local circulation improvement plans is crucial to ensure continued mobility through and beyond the 2025 horizon of this General Plan.

Objective CCM-5: Cooperate in the implementation of regional and inter-jurisdictional transportation plans and improvements to the regional transportation system.

Policy CCM-5.1: Coordinate impacts of new roadway connections with adjacent cities and Riverside County to ensure



consistency in design and operations of the new facilities and connections.

- Policy CCM-5.2: Support implementation of the *SCAG Regional Transportation Plan*.
- Policy CCM-5.3: Promote citizen involvement in decisions regarding major street widening projects through the direct involvement of the area residents affected.
- Policy CCM-5.4: Actively participate with other jurisdictions and agencies such as the County, RCTC, RTA, SCAG, WRCOG and CALTRANS to facilitate regionally integrated transportation networks.
- Policy CCM-5.5: Participate in programs to mitigate regional traffic congestion.
- Policy CCM-5.6: Integrate signal systems with adjacent jurisdictions and Caltrans.
- Policy CCM-5.7 Work with Riverside County and as a member of the March Joint Powers Authority to ensure adequate circulation within the JPA jurisdictional area and around Riverside National Cemetery.

TRIP REDUCTION

To minimize the impacts of future development on the City's circulation system, transportation demand management strategies and the Congestion Management Plan must be implemented in conjunction with the Master Plan of Roadways. Areas that already experience traffic congestion will also benefit from these methods.

In recent years, the region's number of trips and amount of travel has grown at a faster rate than population growth. Transportation demand management (TDM) strategies are designed to counter this trend. TDM strategies reduce dependence on the single-occupant vehicle, increase the ability of the existing transportation system to carry more people and enhance mobility along congested corridors. The goal of TDM is to reduce single-occupant motor vehicle trips during peak hours and modify the vehicular demand for travel.

A reduction in peak-hour trips, overall roadway congestion and a decrease in non-attainment pollutants can be achieved through the implementation of TDM strategies. Examples of TDM strategies



Traffic-calming features include small roundabouts like this one that reduce the speed of neighborhood traffic and enhance the neighborhood's appearance.



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include: telecommuting, flexible work hours and electronic commerce that allows people to work and shop from home. The City supports TDM strategies that are consistent with the South Coast Air Quality Management District and County of Riverside TDM Guidelines.

Objective CCM-6: Reduce peak-hour trips, roadway congestion and air pollution.

See the Air Quality Element under "Transportation" for more information on this topic.

In particular review Objective AQ-2.

Policy CCM-6.1: Encourage the reduction of vehicle miles, reduce the total number of daily peak hour vehicular trips, increase the vehicle occupancy rate and provide better utilization of the circulation system through the development and implementation of TDM programs contained in the SCAQMD and County of Riverside TDM Guidelines.

Policy CCM-6.2: Encourage the use of telecommunications by Riverside residents, employees and students as a means to reduce air and noise pollution generated by traffic.

PROTECTING OUR NEIGHBORHOODS

As traffic volumes and congestion increase on freeways and arterials, drivers looking to reduce their travel times begin to look at alternative routes on the local street system to avoid problem areas. This neighborhood intrusion by cut-through traffic has become a growing concern for some residential areas.

The City has an active Neighborhood Traffic Management Program to minimize and/or prevent intrusion of regional cut-through traffic into residential neighborhoods through traffic management and traffic calming strategies; and to improve the livability of neighborhoods through controlling traffic impacts. The strategies include traffic circles, entrance treatments, curb extensions, diverters and speed humps. The community is actively involved in requesting calming measures, and in some cases helps the City fund the improvements.

Objective CCM-7: Minimize or eliminate cut-through traffic within Riverside's residential neighborhoods.

Policy CCM-7.1: Discourage and/or prevent regional cut-through traffic in residential neighborhoods through the



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employment of traffic-calming measures within Riverside.

- Policy CCM-7.2: Work with adjacent jurisdictions, the County and regional agencies to address the impacts of regional development patterns on the local circulation system.
- Policy CCM-7.3: Discourage freeway access improvements that could facilitate further non-local traffic intrusion into community neighborhoods.
- Policy CCM-7.4: Limit local roadway improvements to those that are necessary to support proposed General Plan land uses.
- Policy CCM-7.5: Discourage improvements beyond those contained in the Circulation and Community Mobility Element to accommodate additional regional traffic.



Sometimes drivers just need simple visual reminders to slow down and drive safely.

SAFE ROUTES TO SCHOOL

Implementation of strategies to reduce cut-through traffic will also help protect residential neighborhoods and enhance pedestrian safety around schools, churches, community centers and parks. Of particular concern are the safety hazards posed by vehicles to school-aged children and other residents during the peak drop-off and pick-up hours. The City will work with local school districts to identify safe routes to all schools, establish safe drop-off and pick-up zones and encourage walking or bicycling as safe alternatives to driving children to school.

Objective CCM-8: Protect neighborhoods and reduce the risk posed to young children and other residents by vehicular traffic on local roadways.

- Policy CCM-8.1: Work with local school districts to identify safe routes to all schools, enabling better school access by cyclists and pedestrians. Support the establishment of safe drop-off and pick-up zones around schools during the morning and afternoon peak hours.
- Policy CCM-8.2: Promote walking as a safe mode of travel for children attending local schools.
- Policy CCM-8.3: Apply creative traffic management approaches to address congestion in areas with unique problems,





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particularly on roadways and intersections in the vicinity of schools in the morning and afternoon peak hours and near churches, parks and community centers.

ALTERNATIVE MODES OF TRANSPORTATION

Public transportation and alternative modes of travel, such as bicycling and walking, are important components of a comprehensive circulation system. Public and alternative modes of transportation offer an alternative to the use of the automobile and help reduce air pollution and road congestion. To promote the increased usage of these modes of transportation, adequate facilities and services must be provided.

BUS AND RAIL SERVICE



Public bus service is provided by the Riverside Transit Agency (RTA). In 2004, twenty RTA bus routes traversed the planning area. Additional services offered by RTA are CommuterLink and Dial-A-Ride. CommuterLink routes travel to major transit centers and Metrolink stations in Riverside, San Diego and San Bernardino counties. Dial-A-Ride service is available for ADA-certified passengers.

Rail service is provided by Metrolink, which serves over thirty-five thousand passengers in fifty cities throughout Southern California. Lines traversing the City include the Inland Empire-Orange County Line,

which runs between San Bernardino and San Juan Capistrano; the 91 Line, which runs from Riverside to downtown Los Angeles via Fullerton and other points in Orange County; and the Riverside Line, which also runs from Riverside to downtown Los Angeles via Ontario and downtown Pomona.

The City and RTA plan a new first-class transit center in Riverside (location still to be determined). Facilities will incorporate digital kiosks that give passengers accurate and up-to-the-minute bus arrival information. RTA is also expected to approve plans for a Bus Rapid Transit (BRT) project in Riverside County. BRT is a system of fast-moving, high-occupancy buses that utilize the latest in technology for clean, efficient express bus service. In concept, BRT would provide several buses operating just minutes apart with limited stops.





The RCTC and Metrolink are cooperatively planning the development of a new Perris Valley Line, an approximately twenty-two mile extension of the Metrolink 91 line, to provide service between Riverside and downtown Los Angeles. The Perris Valley line will include stops between the City of Perris and Riverside. Longer-term plans for the railway call for extensions eastward to the City of Hemet.

In addition to Metrolink, which serves Southern California, the California High Speed Rail Authority proposes a high-speed train (HST) system for intercity travel in California between the major metropolitan centers of Sacramento and the San Francisco Bay Area in the north, through the Central Valley, to Los Angeles, Riverside and San Diego in the south. The HST will carry passengers at speeds in excess of two hundred miles per hour on a fully grade-separated track, with state-of-the-art safety, signaling and automated control systems.



Riverside is strongly committed to ensuring that public transportation improves as a truly viable alternative. The Land Use and Urban Design Element is structured to support this principle. Further, the City will continue to coordinate with the RCTC, RTA, Metrolink and the California High Speed Rail Authority in developing future route alignments and scheduling to serve Riverside. The City will support and facilitate the public transit routes and facilities shown on Figure CCM-4 (Transit Facilities).

Objective CCM-9: Promote and support an efficient public multi-modal transportation network that connects activity centers in Riverside to each other and to the region.

- Policy CCM-9.1: Encourage increased use of public transportation and multi-modal transportation as means of reducing roadway congestion, air pollution and non-point source water pollution.
- Policy CCM-9.2: Support implementation of RTA's Bus Rapid Transit Program and recommendations of the Go Riverside Task Force.
- Policy CCM-9.3: Explore the feasibility of light rail/monorail within the City.

See the Air Quality Element under "Transportation" for more information on this topic.

In particular review Objective AQ-2.



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Slipsheet - Figure CCM-5



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- Policy CCM-9.4: Support efforts of the California High Speed Rail Authority to bring high-speed trains to California and Riverside.
- Policy CCM-9.5: Incorporate facilities for transit and other alternative modes of transportation, such as park-and-ride lots and bus turnouts, in the design of future developments.
- Policy CCM-9.6: Enhances and encourage the provision of attractive and appropriate transit amenities, including shaded bus stops, to facilitate use of public transportation.
- Policy CCM-9.7: Ensure adequate connections among all alternative modes.
- Policy CCM-9.8: Preserve options for future transit use where appropriate when designing improvements for roadways.

WALKING AND BIKING

The City promotes bicycling, walking and equestrian riding for recreation and mobility. A comprehensive trails system will link residential areas, schools, parks and commercial centers so that residents can travel within the community without driving.



A Class II bicycle route.

Bicycling in particular, especially in Riverside's relatively mild climate, can be a viable alternative to local work commutes and offers children a healthy way to get to school. To facilitate and encourage bicycle trips, the City will implement a Bicycle Master Plan that designates Class I and Class II bicycle facilities throughout the City. The plan is shown on Figure CCM-5 (Master Plan of Trails and Bikeways). Class I bikeways provide a completely separated right-of-way designated for the exclusive use of bicycles and pedestrians. Class II bikeways provide a restricted right-of-way on a roadway's shoulder designated for the exclusive or semi-exclusive use of bicycles. Victoria Avenue's bike path will continue to be a key Class I facility, with similar routes strongly encouraged as part of developing areas.

The implementation of enhanced local bicycle and pedestrian linkages is consistent with the objective to create Riverside Park (see the Land Use and Urban Design Element). New development projects will be required to include safe and attractive sidewalks, walkways and bike lanes; developers of residential and nonresidential projects will be encouraged to construct links adjacent to areas and communities where appropriate.



Objective CCM-10: Provide an extensive and regionally linked public bicycle, pedestrian and equestrian trails system.

See the Public Safety Element under “Ground and air Transportation – Pedestrian and Bicyclist Safety,” the Education Element under “Ensuring Safe Routes to Schools” and the Air Quality Element under “Land Use Strategies” for more information on alternative modes of transportation.

In particular review Objectives PS-5, ED-4 and AQ-2 and Policies AQ-1.9 and AQ-1.18.

Policy CCM-10.1: Ensure the provision of bicycle facilities consistent with the Bicycle Master Plan.

Policy CCM-10.2: Incorporate bicycle and pedestrian trails and bicycle racks in future development projects.

Policy CCM-10.3: Provide properly designed pedestrian facilities for the disabled and elderly population to ensure their safety and enhanced mobility.

Policy CCM-10.4: Identify and seek to eliminate hazards to safe, efficient bicycle or pedestrian movement citywide.

Policy CCM-10.5: Promote the health benefits of using a bicycle or walking as a means of transportation.

Policy CCM-10.6: Encourage pedestrian travel through the creation of sidewalks and street crossings.



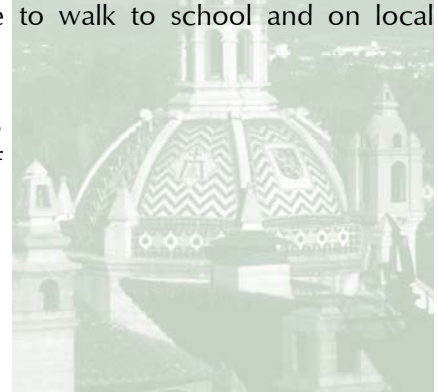
Policy CCM-10.7: Maintain an extensive trails network that supports bicycles, pedestrians and horses and is linked to the trails systems of adjacent jurisdictions.

Policy CCM-10.8: Maximize links between trails and major activity centers, residential neighborhoods, schools, shopping centers and employment centers.

Sidewalks and landscaped parkways create pleasant, safe paths for pedestrians that encourage people to walk to school and on local errands.

Policy CCM-10.9: Provide adequate connections between elements of Riverside Park.

Policy CCM-10.10: Evaluate the needs of bicycle traffic in the planning, design, construction and operation of all roadway projects funded by the City.





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Figure CCM-6





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Policy CCM-10.11: Provide sufficient paved surface width to enable bicycle traffic to share the road with motor vehicles where traffic volumes and conditions warrant.

Policy CCM-10.12: Encourage bicycling as a commute mode to school, work, etc.

AIRPORTS

Airports within and near Riverside play a role in the City's economic development strategy. Riverside Municipal Airport and March Air Reserve Base both lie within the Planning Area, and Flabob Airport is just to the north, within the unincorporated community of Rubidoux. The locations of these air facilities are shown on Figure CCM-6.

Riverside Municipal Airport, an integral part of the local and regional air transportation system, provides private general aviation services. The airport includes two runways and is situated on four hundred and fifty-one acres of land. The airport is owned and operated by the City, with airport operations overseen by the City of Riverside Airport Commission.



Riverside Municipal Airport accommodates a broad range of general aviation activities, including take-offs and landings of corporate jet aircraft.

The Riverside Airport Master Plan, approved in November 1999, is a result of a cooperative effort between the City and the Federal Aviation Administration. The preparation of the Master Plan is evidence that the City recognizes the importance of Riverside Municipal Airport to the community and the region, as well as the associated challenges inherent in accommodating future aviation needs. The City will continue to use the Master Plan to guide development of the airport to ensure the airport's long-term viability and to reduce the risk of potential aircraft-related hazards.

March Air Reserve Base stands as a continuing legacy of the military in Riverside and the positive influence the military has had on the local economy. Today, with the repositioning of the nation's military force, March has transitioned from a key Air Force Strategic Air Command base to a joint-use facility housing the Air National Guard and a growing commercial cargo port. A Joint Powers Authority (JPA), in which the City of Riverside actively participates, administers land use and planning functions on the March property. The City will continue to support the conversion of March to an inland cargo port and increased use of the facility for commercial purposes, in accordance with adopted plans.

See the Public Safety and Noise Elements for information about airport noise and safety impact zones.



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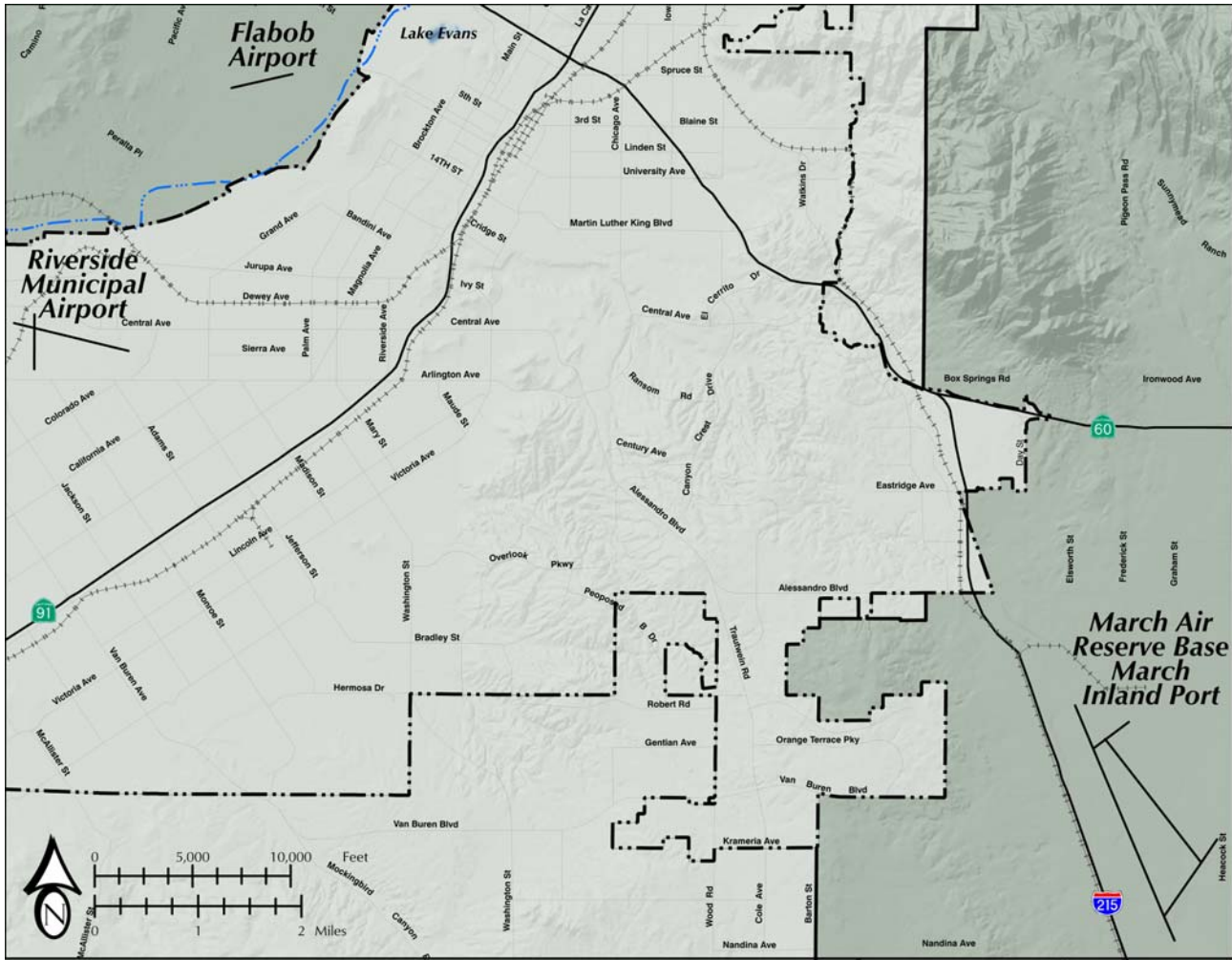


Figure CCM-7
LOCAL AND NEARBY AIRPORT FACILITIES

See the *Land Use and Urban Design Element* under “The Built Environment – Relationship to Nearby Airports,” the *Public Safety Element* under “Ground and Air Transportation” and the *Noise Element* under “Minimizing Noise Impacts” for more information on airports.

In particular review Objectives LU-21, LU-22, PS-4, N-2 and N--3.

Objective CCM-11: Promote improved air transportation for Riverside in a manner that benefits the City.

Policy CCM-11.1: Protect flight paths from encroachment by inappropriate development.

Policy CCM-11.2: Limit building heights and land use intensities beneath airport approaches and departure paths to protect public safety consistent with approved plans and applicable regulations.



- Policy CCM-11.3: Ensure that Riverside Municipal Airport continues to serve general aviation needs.
- Policy CCM-11.4: Support continued development of MARB/MIP.
- Policy CCM-11.5: Coordinate public and local transit with planning for air transportation.
- Policy CCM-11.6: Encourage the development of high-speed ground transportation systems to supplement the air travel system for meeting regional travel needs.
- Policy CCM-11.7: Ensure environmental impacts such as noise, air quality, pollution, traffic congestion and public safety hazards associated with continued operation of local airports are mitigated to the extent practicable.

FREIGHT: RAILWAYS AND TRUCK MOVEMENT

An effective and efficient goods movement system is essential to the economic livelihood of all urban areas. Riverside contains active rail lines used by the Union Pacific and Burlington Northern Santa Fe Railroad companies. The freight rail system serves the growing Ports of Los Angeles and Long Beach, and some of the freight from these ports travels easterly through Riverside. In 2000, peak railroad traffic in Riverside County was eighty-five freight trains per day and is expected to grow to one hundred sixty-nine trains per day by 2020.

RAILWAYS

Increased freight movement by rail will exacerbate traffic delays on local streets and present continuing, increased safety hazards. The City actively pursues grade separation projects to enhance vehicular safety and reduce vehicular delays, which will also have the beneficial side effect of improving local air quality by minimizing the number of idling vehicles waiting for trains to pass.

An example of a successful large-scale grade separation project that should be emulated is the Alameda Corridor. The Alameda Corridor, which opened in April of 2002, provides grade separation along an existing at-grade railway that connects the Ports of Long Beach and Los





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Angeles to rail yards in downtown Los Angeles. According to the SCAG *Regional Transportation Plan*, the corridor provides grade separations at two hundred street-rail intersections, reducing vehicle-train delay by an estimated ninety percent. Other benefits include a ninety percent reduction in noise and vibration, a twenty-eight percent reduction in railroad emissions and a fifty-four percent reduction in emissions from automobiles and trucks idling at railroad crossings. Cargo transport has been expedited as train speed has doubled and travel time to downtown Los Angeles reduced.

In 2003, the City completed a Railroad Grade Separation Report analyzing opportunities for grade separation and potential traffic benefits. The report will help the City prioritize future grade separations in a comprehensive manner, similar to but on a smaller scale than the Alameda Corridor project.

TRUCKING

Trucking dominates goods movement within and through regions. Industrial uses and interstate shipping require truck access and mobility for the delivery of parts and raw materials, movement of inventories and the shipping of finished goods to the marketplace. Commercial and residential uses require the delivery of goods and services for daily operations and other functions. In Riverside, trucks are generally not restricted to specific roadways. On certain roads, trucks weighing over ten thousand pounds are prohibited, except when making deliveries. The restricted streets are prescribed by City Code.

Objective CCM-12: Facilitate goods movement as a means of economic expansion, while protecting residents and visitors from the negative effects typically associated with truck operations and rail service.

See the Air Quality Element under "Transportation" and the Public Safety Element under "Ground and Air Transportation - Ground Transportation" for more information on ground transportation.

In particular review Objective AQ-2 and PS-4.

Policy CCM-12.1: Discourage the use of public streets for heavy freight loading and unloading.

Policy CCM-12.2: Ensure that new development projects provide adequate truck loading and unloading facilities.

Policy CCM-12.3: Aggressively pursue grade-separated rail crossings to alleviate traffic congestion and associated air quality and noise impacts.



Policy CCM-12.4: Strive to minimize through truck traffic in residential areas, and enforce City codes that restrict trucks on certain streets.

Policy CCM-12.5: Work with the railroads and State and Federal agencies to minimize the adverse safety and congestion impacts of at-grade rail crossings of major streets.

PARKING

Typically, parking is considered a separate issue from vehicle circulation. However, if not designed properly, on-street parking can directly affect roadway capacity. In addition, off-street parking deficiencies can cause vehicles to re-circulate on public streets, increasing traffic volumes and congestion.

The City's Municipal Code includes parking requirements to ensure that adequate parking is provided on site for most uses. The Code also establishes minimum parking stall dimensions. The City will continue to apply these regulations to all proposals for new development projects and major modifications of existing facilities.

Objective CCM-13: Ensure that adequate on- and off-street parking is provided throughout Riverside.

Policy CCM-13.1: Ensure that new development provides adequate parking.

Policy CCM-13.2: Accommodate joint use of parking facilities as part of an area plan or site plan, based on the peak parking demands of permitted uses in the planning area.

Policy CCM-13.3: Work with developers to provide additional parking to mitigate area-wide parking shortages whenever feasible.

Policy CCM-13.4: Encourage the use of shared parking arrangements in areas where parking shortfalls exist, including in Downtown, for mixed-use projects and along the Market/Magnolia corridor.

See the Air Quality Element under "Transportation" for more information on this topic.

In particular review Objective AQ-2.
