

INFRASTRUCTURE & PUBLIC SERVICES ELEMENT

The Infrastructure & Public Services Element of the Coachella General Plan identifies and establishes City policy with regard to the provision of utility, public safety, educational, and municipal services and facilities within the community. The following types of infrastructure and public services are addressed in this chapter:

- Domestic Water
- Irrigation Water
- Wastewater Collection and Treatment
- Stormwater Drainage
- Natural Gas
- Electricity
- Telephone
- Cable Television
- Solid Waste Disposal
- Law Enforcement
- Fire Protection
- Emergency Preparedness
- Health Care
- City Administration
- Public Education
- Public Library

EXISTING SETTING

DOMESTIC WATER SERVICE - The majority of the City's domestic water service is provided through the Coachella Municipal Water Department,

while unincorporated areas are served by the Coachella Valley Water District (CVWD).

The primary source of water for the City of Coachella comes from deep groundwater aquifers ranging between 400 and 1,000 feet below the surface. The City owns and operates four wells and two reservoirs. The capacity of the system is 5.1 million gallons of storage and 5,000 gallons per minute of water production from all wells.

The City of Coachella uses approximately 5.32 million gallons of water per day for all nonagricultural uses including residential, commercial, and industrial development assuming demand factors of 2,100 Gallons Per Day for residential uses 3,500 GPD for commercial/industrial uses. This accounts for only 4% of total water usage within the Planning Area. The existing water supply is adequate to serve existing residents and the system has the capacity to supply an additional 1.8 Million Gallons Per Day (MGD).

IRRIGATION WATER - Agricultural water usage is estimated at approximately 134.51 (MGD) within the Planning Area using a factor of 6.9 acre feet per year. Water provided for agricultural irrigation is delivered to the Coachella Valley via the All American Canal owned by the U.S. Bureau of Reclamation (USBR) and operated by the CVWD. An extensive system of agricultural irrigation lines, also owned by the USBR and operated by the CVWD, deliver irrigation water from the canal to individual farms.

WASTEWATER COLLECTION & TREATMENT - Several agencies provide sewer service within the planning area including the Coachella Sanitary District and the Valley Sanitary District within the incorporated area and the Coachella Valley Water District and Thermal Sanitary District in the unincorporated area.

The primary sewer provider within the incorporated City is the Coachella Sanitary District with the Coachella City Council acting as Board of Directors. The District operates a network of underground collection lines, a 30 acre domestic wastewater treatment facility located near Avenue 54 and Polk Street and a 12 acre agricultural washwater

treatment facility located near Avenue 52 and Tyler Street. The domestic treatment facility has a capacity of 2.8 MGD, with a 1994 average daily flow of 1.9 MGD (68% capacity) while the agricultural washwater treatment facility has a peak month capacity of 175,000 GPD.

The Coachella Sanitary District also provides domestic treatment capacity to the Thermal Sanitary District which is collected at a lift station and delivered by force main from Thermal to the CSD domestic treatment facility. In 1994, the Thermal Lift Station was contributing approximately 150,000 GPD to the treatment plant.

Except for Thermal, sewer service to all unincorporated areas is handled by the Coachella Valley Water District (CVWD). CVWD is capable of providing sewer collection and treatment services to all unincorporated areas south of the City via a system of force mains and a 5.8 MGD wastewater reclamation plant located at Avenue 62 and Fillmore Street. This plant treats a 1996 average flow of approximately 4.3 GPM (74% capacity). This plant is sited on 300 acres of land with an ultimate expansion capacity of 30-50 MGD.

STORMWATER MANAGEMENT - Regional flood and drainage control is provided by the Coachella Valley Water District (CVWD). CVWD operates the Coachella Valley Stormwater Channel which conveys regional flows through the Coachella area to the Salton Sea. The East Side Dike, a second major drainage facility operated by CVWD, parallels the All American Canal protecting the canal and the Coachella area from storm flows originating in the Mecca Hills. Detention Channel No. 3 and the Avenue 52 Evacuation Channel act as spillways conveying stormwater from the Eastside Dike to the Coachella Valley Stormwater Channel.

Within the incorporated area, local drainage is the responsibility of the City of Coachella. Currently the City experiences periodic local flooding problems on downtown streets which contribute flows to Shady Lane and Avenue 53. The City has developed plans and is seeking funding to alleviate this condition. The City also is developing a drainage master plan to address the developed portion of the City and areas to the west.

Within the unincorporated area, which consists primarily of agricultural or undeveloped land, local drainage is the responsibility of Riverside County in conjunction with CVWD. CVWD maintains an extensive system of agricultural tile drains which return irrigation water to the Coachella Valley

Storm Channel. In addition to this function, the tile drain system also serves to control some local surface drainage and to artificially lower Coachella's otherwise high water table. Areas of periodic localized flooding do occur within the unincorporated area, but, because of its rural and agricultural character, no master plans to accommodate urbanization have been developed to date.

NATURAL GAS SERVICE - Natural Gas Service is provided to the City by the Southern California Gas Company.

Three regional natural gas transmission pipelines cross the Planning Area via an easement adjacent to the power line corridor through the Mecca Hills. These include Lines 2000 and 2001, both 30 inch lines; and Line 2051 which is a 36 inch line.

Two major petroleum transmission pipelines cross the Planning Area within an easement adjacent to the Southern Pacific railroad tracks. These are high pressure lines, one being 12 inches in diameter and the other 20 inches in diameter, which run from Texas to San Pedro, California.

ELECTRIC, TELEPHONE, AND CABLE TELEVISION SERVICE - Other utilities that provide service to the City include electrical power, telephone and cable television services.

Electrical service is provided by the Imperial Irrigation District which is regulated by the Coachella City Council acting as Public Utilities Commission. The Imperial Irrigation District provides electricity generated by a steam plant in El Centro and hydroelectric power generated by the All American Canal. Substations within the Coachella Planning Area include the Coachella Valley Substation at Avenue 52 and Pierce Street, the Coachella City Substation at Avenue 52 and State Highway 111, the Avenue 52 Substation at Avenue 52 and Tyler Street, and the Thermal Substation at State Highway 111 and Avenue 50.

Southern California Edison operates a major transmission corridor in the Mecca Hills located north of the All American Canal. There are three regional overhead transmission lines within this corridor. One 230 Kv line, is owned by the Imperial Irrigation District. The other two lines, 220 Kv and 500 Kv, are owned by Southern California Edison. Edison transmits power from a nuclear plant in Arizona via the 500 Kv line and from a Metropolitan Water District plant at Desert Center, California via the 220 Kv line. Plans call for

additional transmission lines within this corridor in the future.

The purveyor of local telephone service is General Telephone Company while long distance telephone service is provided via AT&T lines through multiple private providers.

U. S. West Cable Company operates the cable television system under franchise from the City of Coachella. The franchise governs where cable television service must be provided. U. S. West Cable Company plans to upgrade the existing cable system by the end of 1997 to increase the existing 54 channels to 116 and lay fiber optic cable as a platform to support future telephony, high speed data and interactive television services.

SOLID WASTE DISPOSAL - The City of Coachella currently contracts with Western Waste Industries (WWI), a private waste hauling company, for solid waste collection and disposal services. Municipal solid waste generated in the City is currently disposed of at the Coachella Landfill located on Avenue 44 just east of the City limits. The Coachella Landfill is scheduled for closure in December of 1996. After that time, it is expected that the Edom Hill Landfill, located on Varner Road in Cathedral City will be used until its projected closure date in the year 2001.

The City of Coachella adopted the Source Reduction & Recycling Element and the Household Hazardous Waste Element in 1991. This is part of a regional effort led by the Innovative Waste Management Board.

LAW ENFORCEMENT - Police protection for the City is provided by the Coachella Police Department located at 1280 Grapefruit Boulevard. Police force personnel currently include 27 sworn police officers and 9 non-sworn employees. Based on a City population of 21,038 (Dept of Finance, January 1996) the present ratio of police officers to City residents is 1.28 per 1,000 residents, meeting the standard of 1.3 officers per 1,000 population. In addition to traditional law enforcement functions, the Police Department also is responsible for Code Enforcement and Animal Control.

FIRE PROTECTION - The Coachella Fire Department provides fire protection and emergency medical services under a cooperative agreement with the Riverside County Fire Department. The City of Coachella operates Fire Station No. 79 at 1377 Sixth Street within the incorporated City

limits. This station is equipped with two Type 1 engines, one 3,000 gallon water tender and one mini-pumper squad vehicle which are leased by the County. Staffing allocation at the station consists of one Battalion Chief, one Fire Captain, four Engineers and two Level II Firefighters, and a volunteer staff of 25. Areas within a one mile radius of the station, including most of the existing City, have a response time of two minutes while areas within a two to five mile radius have a response time of three to five minutes.

Two other existing stations are proximate to Coachella. These include Station No. 39, located outside the existing city limits at the Thermal Airport and Station No.70 including Springs Ambulance Service located at Avenue 54 and Madison Street in La Quinta. Through its Regional Fire Service System, the City of Coachella receives an immediate response from the outlying stations, including personnel and equipment for any major event or multiple events that may occur within the City.

The existing goal of the Fire Department is to provide service to all areas within Coachella utilizing a 1.5 mile service radius as defined by National Fire Protection Association (NFPA) Standards with service areas outside the 1.5 mile radius receiving service under the Regional Fires Service System of the Riverside County Fire Department. The targeted response time is five minutes or less. Targeted standard of personnel per 1,000 population is 2.0. The City Fire Protection Systems currently meets these goals under the County Fire Regional System. The Insurance Services Office public protection class rating is "4". Ambulance Service is provided by private companies.

EMERGENCY PREPAREDNESS - The present contract with the Riverside County Fire Department includes emergency services coordination responsibilities through the Emergency Services Division. These services provide an annual review of the City's Emergency Plan and the Multi-Hazard Functional Plan which was last adopted in October, 1992 by the City Council. In addition to the above the Emergency Services Division provides Management Training and an annual Disaster Preparedness Drill.

HEALTH CARE - Several health care facilities are available to serve the medical needs of Coachella's residents. The JFK Santa Rosa Del Valle Medical Group provides health care services from clinic offices on Sixth Street in downtown Coachella. Hospital services are provided at the John F.

Kennedy Memorial Hospital, a 130 bed hospital facility located in Indio approximately four miles northwest of Coachella. JFK Memorial Hospital typically operates at a capacity of 60% most of the year with a high of 80% during peak season months.

CITY ADMINISTRATION - City offices are located at 1515 Sixth Street and house the City Administrative Offices, Finance, Planning, Engineering and Building Departments. City facilities contain 5,500 total square feet of floor area and are adequate to meet existing City administrative needs.

PUBLIC EDUCATION - Kindergarten through twelfth public education within the Planning Area is provided primarily by the Coachella Valley Unified School District. CVUSD operates five kindergarten through sixth grade elementary schools, one kindergarten through eighth grade combined grade elementary and middle school, one seventh and eighth grade middle school and one high school that serve the Coachella area. Schools serving grades kindergarten through eighth are currently about 2% over capacity while High School facilities are approximately 38% over capacity. The CVUSD has experienced a student growth rate of approximately 5.2% since 1980 while a slightly slower growth rate of 3.3% is projected by a recent District survey.

In addition to the CVUSD, the service area boundary of the Desert Sands Unified School District (DSUSD) covers portions of the sparsely populated, northern Planning Area. DSUSD maintains no school facilities within the Planning Area but does receive some small contribution of students that attend DSUSD schools from the northern Planning Area.

PUBLIC LIBRARY - The City is served by a public library located in the downtown area at 1538 Seventh Street which is administered by the Riverside City and County Public Library. The existing facility is a converted church building which contains approximately 3,000 square feet and houses approximately 28,300 volumes. The County utilizes an unadopted standard of 0.5 square feet per capita and 1.2 volumes per capita to serve the City. Based on this standard, the City is currently undeserved with regard to library facilities but exceeds the necessary minimum number of volumes.

The infrastructure and public services standards, existing demands and buildout requirements are

presented on Figure 33, City of Coachella, Infrastructure & Public Service Requirements at Buildout.

The development policies and standards described in the Infrastructure Policy Diagram and Public Services Policy Diagram are the basis for Figures 34 and 35, respectively.

SUMMARY OF KEY PLANNING ISSUES

The following key infrastructure and public services issues are addressed in the policies of the Infrastructure & Public Services Element.

- A domestic water distribution system should be extended to all existing and future development in the City.
- A comprehensive wastewater collection and treatment system should be extended to all existing and future development in the City. The use of individual private septic systems should be phased out.
- Utility resources should be conserved utilizing a variety of feasible strategies.
- The City is presently protected from the impacts caused by the 100-year flood. This condition should be maintained.
- Curbs and gutters should be provided on roads to collect and convey storm and nuisance water to appropriate stormwater drainage facilities.
- The feasibility of under grounding existing above ground utilities within roadway rights-of-way or existing easements should be evaluated for new development, as well as redevelopment projects in the City.
- The potential to apply creative financing techniques in the provision of utilities and services, for economic development purposes should be evaluated.
- Adequate levels of law enforcement and fire protection facilities and service should be maintained.
- Adequate levels of health care services and facilities should be provided in reasonable proximity to City residents.

Figure 33 Infrastructure and Public Service Requirements at Buildout

The Incorporated City of Coachella receives water service from the Coachella Municipal Water Dept. & receives sewer service from the Coachella Sanitary District (CSD) and the Valley Sanitary District (VSD).

The unincorporated community of Thermal receives sewer service from the Thermal Sanitary District which, in turn, obtains treatment capacity from the CSD Treatment Plant.

Sewer and water service to unincorporated areas is otherwise provided by the Coachella Valley Water District (CVWD). CVWD also maintains an extensive system of agricultural tile drains within the area.



Infrastructure Policy Diagram

- Area within City sewer, water & drainage Master Plans
- Areas which receive City sewer and/or water service
- Areas which receive CVWD sewer and/or water service
- Thermal Sanitary District

Potable Water Facilities

- Canal
- Trunk Line
- Reservoir
- Well
- Booster Station

Sanitary Sewer Facilities

- Trunk Line
- Force Main
- Treatment Plant
- Lift Station

Stormwater Facilities

- Channel
- Dike
- Storm Drain

Electrical Facilities

- Transmission Powerline (92KV or more)
- Substation

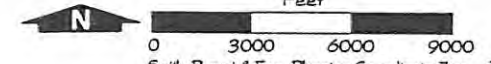
Natural Gas Facilities

- Transmission Pipeline

Note: Hollow symbols indicate proposed facilities

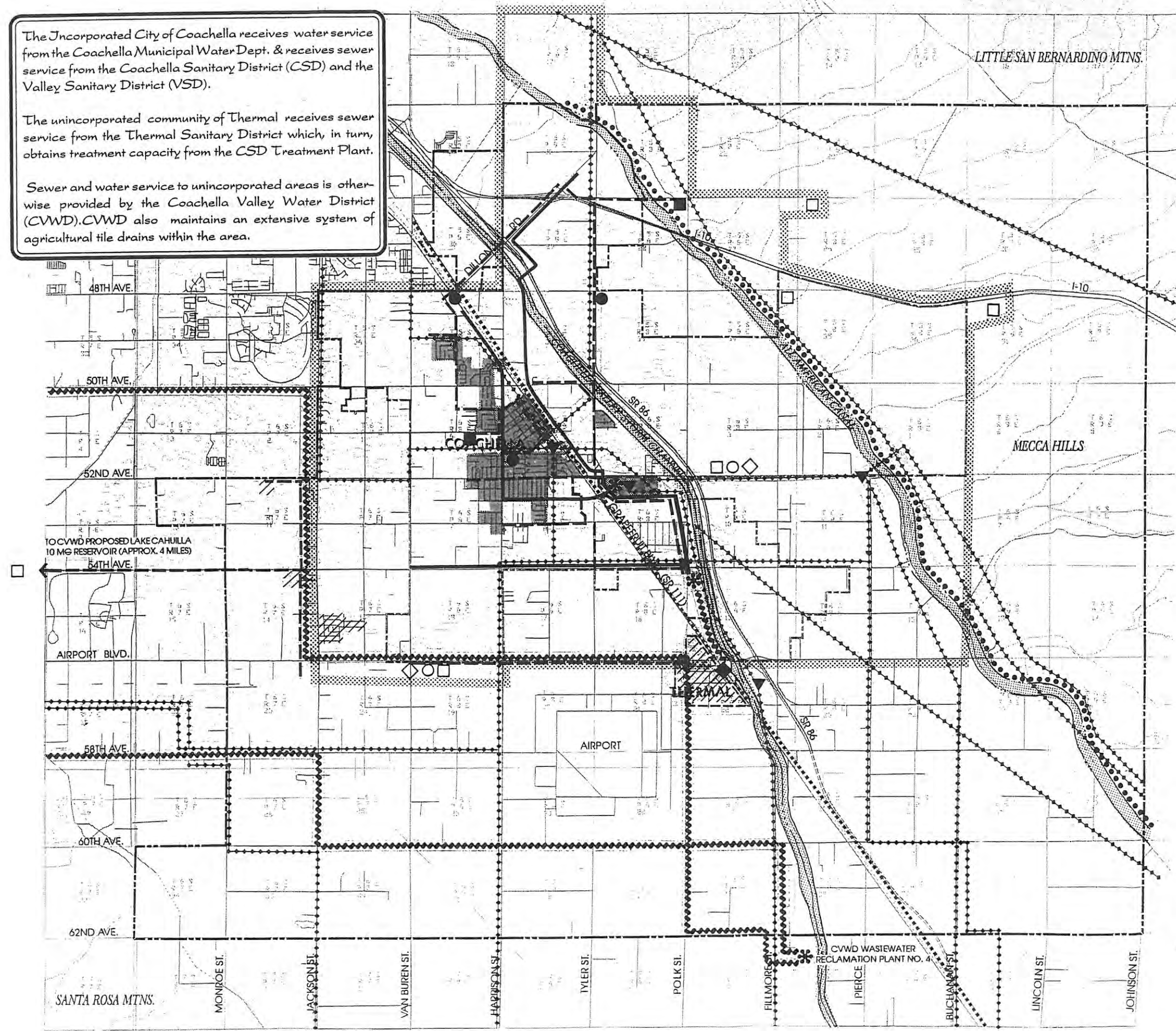
	40 ac
	80 ac
	160 ac
	320 ac
	640 ac

Source:
NBS Lowry
City of Coachella
CVWD
Imperial Irrigation District



Smith, Peroni & Fox, Planning Consultants, Inc.
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Figure No.



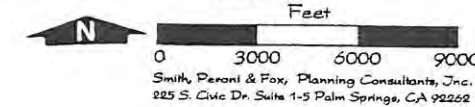
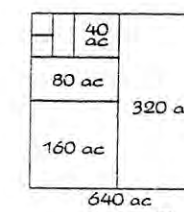


Public Services Policy Diagram

- Law Enforcement Facilities
- Fire Protection Facilities
- Postal Facilities
- Public Education Facilities
(1. Elementary, 2. Middle School, 3. High School)
- Health Care Facilities
- Municipal Facilities
(1. City Hall, 2. City Yard, 3. Chamber of Commerce)
- Library Facilities
- Airport Facilities
- Cemetery Facilities

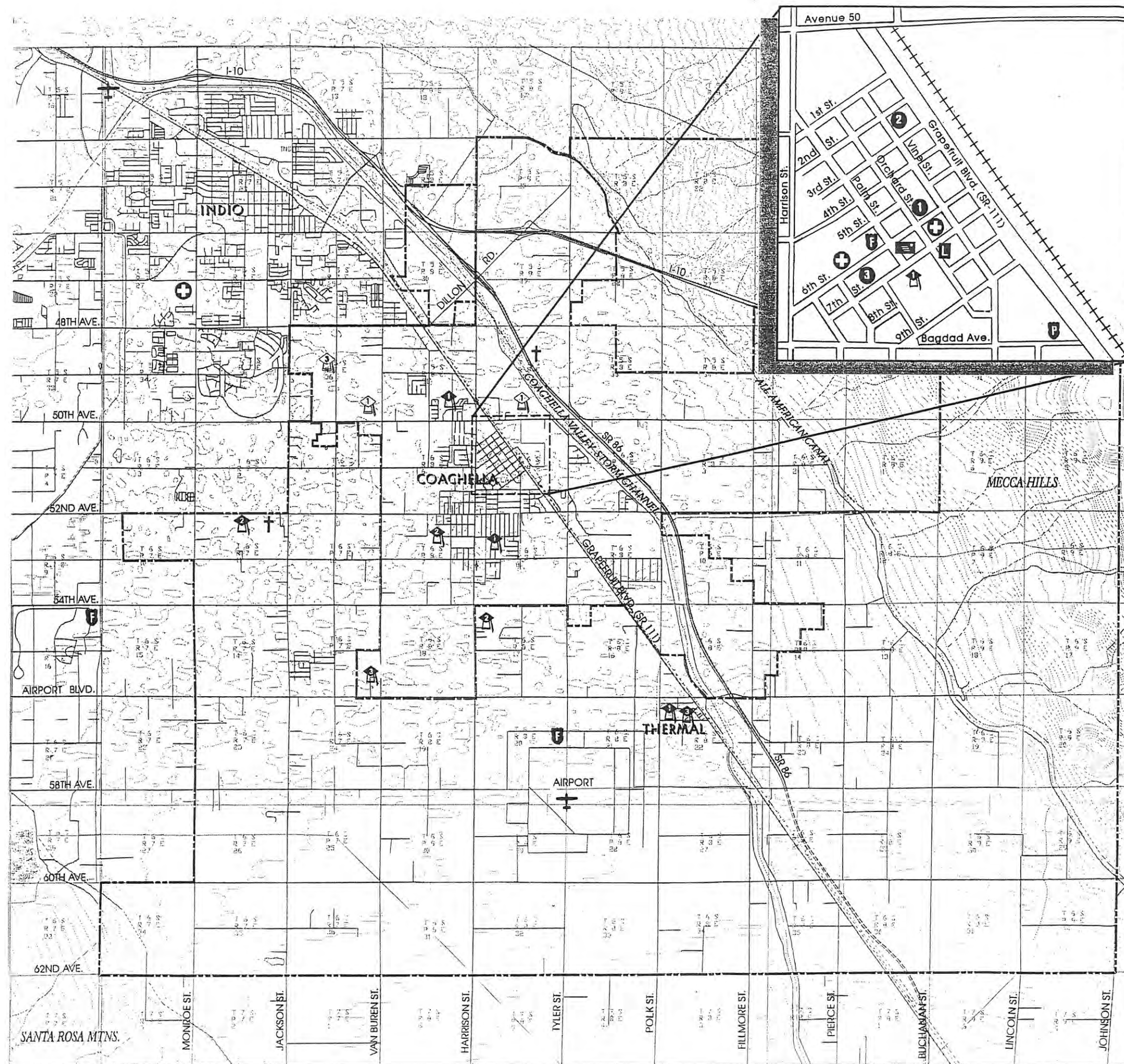
NOTE: Hollow symbols represent proposed facilities

Source:
City of Coachella
Smith, Perani & Fox



Smith, Perani & Fox, Planning Consultants, Inc.
225 S. Civic Dr. Suite 1-5 Palm Springs, CA 92262

Figure



- Public elementary schools should be provided in close proximity to residential areas to facilitate safe pedestrian access for school children.
- Additional opportunities should be provided for adults to achieve higher levels of education in the community.
- The provision of adequate funds to augment existing public school facilities should be addressed utilizing a variety of means.
- A centralized location and adequate facilities for public library facilities should be provided in Coachella.
- Adequate and centralized municipal space and facilities should be provided to effectively serve the City.
- The recycling, reduction and reuse of waste generated in the City should be supported in the City.
- The frequent collection of solid waste and adequate disposal should be provided to keep the City clean and disease free.

INFRASTRUCTURE & PUBLIC SERVICES VISION STATEMENT

The essence of Coachella's vision for infrastructure and public services is captured in the following statement.

The growth of Coachella is dependent upon recognizing the importance of a functional, efficient and cost effective system of providing public services and infrastructure that protects the community.

RELATIONSHIP TO OTHER GENERAL PLAN ELEMENTS

The Infrastructure & Public Services Element is one of thirteen elements in the Coachella General Plan. The Infrastructure & Public Services Element correlates all of the public safety, municipal, educational and utility facility and service issues into a set of development policies. The basis for the infrastructure and public services needs is the Land Use Policy Diagram. The locations of needed infrastructure and public services are correlated with

all of the General Plan Elements, including the Land Use, Circulation, Park and Recreation, Environmental Conservation Elements. The goals, policies, standards and proposals within this element shall relate directly to, and shall be consistent with all other General Plan Elements.

OVERVIEW OF THE INFRASTRUCTURE & PUBLIC SERVICES POLICY DIAGRAM

The graphic depiction of the City of Coachella's official policy relative to infrastructure and public services is presented on Figures 34 and 35. These diagrams illustrate the type and location of the existing services as well as the conceptual locations for future facilities necessary to serve the City at full buildout. The time frame for buildout is not definitively known but is anticipated to be 25 to 30 years in the future.

Existing utility systems and public services which currently serve the City are depicted on the Infrastructure Policy Diagram and Public Services Policy Diagram. The specific sizing and location of future infrastructure and public service facilities will be determined incrementally as more detailed planning and engineering design studies and public service plans become available.

INFRASTRUCTURE & PUBLIC SERVICES ELEMENT GOALS, OBJECTIVES AND POLICIES

The City of Coachella's official development policies related to infrastructure and public services are presented below. In the context of this General Plan, development policies include goals, objectives and policies as defined in the Introduction.

Goal

Provide public and private utilities and stormwater drainage improvements which adequately meet the needs of the City of Coachella at buildout.

Objective

The City shall utilize a variety of means to ensure that adequate supplies of domestic water and facilities for distribution are provided to all residential and non-residential development in the community.

Policy

The City shall ensure the provision of a perpetual supply of domestic water to all Coachella residents.

Policy

The City shall identify areas in the City for domestic water facility expansion and upgrading.

Policy

The City shall require that new development provide adequate domestic water infrastructure facilities that will connect with the main domestic water distribution system.

Policy

The City shall continue to coordinate the formation and administration of improvement districts to replace undersized, unlined and under pressurized pipes; and to expand domestic water production and conveyance capacity to increase domestic water output.

Policy

The City shall coordinate with the Riverside County Fire Department to ensure that domestic water distribution facilities are adequately sized to accommodate fire flow requirements.

Policy

The City shall determine connection fees necessary to provide development with adequate domestic water distribution facilities and an assured water supply.

Policy

The City shall coordinate with the CVWD in water conservation efforts to reduce the amount of domestic water utilized by City residents. Such efforts shall be consistent with the Environmental Conservation Element.

Policy

The City shall coordinate with the CVWD to evaluate strategies to increase the amount of recharge to the underground aquifer through the use of site design techniques, turf and agricultural irrigation methods, and the utilization of tertiary treated wastewater or lower quality domestic water.

Policy

The City shall encourage the use of reclaimed water.

Policy

The City shall adopt and maintain a current water system master plan with defined capital improvement schedules and funding sources.

Policy

The City shall require the dedication of real property within a proposed development for required water facilities to serve the development.

Objective

The City shall utilize a variety of means to ensure that an adequate supply of water is available for the creation and maintenance of water features within the City's proposed Entertainment Area.

Policy

The City's shall coordinate with CVWD and other appropriate agencies to evaluate the feasibility of pumping perched groundwater for filling and maintaining recreational water features within the Entertainment Area.

Policy

The city shall develop a water source plan and obtain necessary approvals from all water resource agencies before construction of any water features in the Entertainment Area

Objective

The City shall utilize a variety of alternative means to ensure that adequate sewage collection and treatment facilities are provided to all residential and non-residential development in the community.

Policy

The Coachella Sanitary District shall coordinate with the Coachella Valley Water District (CVWD), the Valley Sanitary District (VSD), and the Thermal Sanitary District (TSD) to ensure the provision of a comprehensive sewage collection system with adequate treatment capacity throughout the Planning Area.

Policy

The Coachella Sanitary District shall coordinate planning efforts with the CVWD, VSD, and TSD to identify priority areas in the City and its Planning Area for sanitary sewage collection, facility expansion, and upgrading.

Policy

The City shall abate illegal onsite wastewater disposal systems within the incorporated area and shall coordinate with the County, LAFCO, and affected property owners to remediate any inadequate or substandard onsite wastewater disposal systems within unincorporated areas which apply for annexation to the City.

Policy

The City shall adopt and maintain a current Sewer Master Plan with defined capital improvement schedules and funding sources.

Policy

The City shall acquire additional properties around its existing treatment plants and pursue other measures as necessary to ensure cost effective expanded treatment plant capacity as recommended by the City's Sewer Master Plan.

Policy

The Coachella Sanitary District shall coordinate with CVWD, VSD and TSD regarding the formation and administration of improvement districts to provide adequately sized wastewater collection pipes, service connections, and treatment systems within the City and the Planning Area.

Policy

The Coachella Sanitary District shall coordinate with CVWD, VSD, and TSD to assess connection fees necessary to provide existing and new development with a comprehensive wastewater collection and treatment system.

Policy

The City shall require connection to the sewer system of all new development at urban densities (one unit/acre or greater) in the valley area. New development at rural densities or in areas with extremely difficult and/or expensive sewer construction, for example the Mecca Hills, may be accommodated by private septic systems provided there are no negative health and safety impacts and subject to review and approval by the City Council, the Coachella Sanitary District, the Riverside County Environmental Health Department, the Coachella Valley Water District, and the Regional Water Quality Control Board. The City Ordinance which regulates private septic systems shall be amended in accordance with this policy.

Policy

Percolation tests and sewage disposal evaluations shall be performed in accordance with the standards and requirements of the Riverside County Environmental Health Department prior to project approval for any new development proposing onsite wastewater disposal systems.

Policy

The City shall maintain and operate their wastewater facilities in a manner that does not jeopardize the public's health, safety, or welfare.

Policy

The City shall evaluate the feasibility of utilizing tertiary treated wastewater or stormwater to provide irrigation water for large, water based recreational amenities, for example lakes within golf courses and the Entertainment Area and to irrigate large turf and landscaped areas.

Objective

The City shall utilize alternative means to ensure the provision of adequate stormwater collection, retention, detention and conveyance facilities necessary to protect the community from stormwater damage and to ensure the continued viability of agricultural tile drains in the Coachella area.

Policy

The City shall adopt and maintain a current drainage system master plan, with defined capital improvement schedules and funding sources.

Policy

The City shall coordinate with CVWD to identify existing agricultural tile lines with defined capital improvement plan.

Policy

Development within watercourses and stormwater facilities shall be limited primarily to recreational uses such as golf courses, play fields and similar uses which are compatible with periodic inundation by stormwater.

Policy

The City shall coordinate with the Coachella Valley Water District (CVWD) to ensure the proper location, function and capacity of stormwater facilities to protect the City.

Policy

The City shall coordinate with the CVWD to prepare and adopt a Drainage Master Plan, based on the full buildout of the City which identifies the

facilities needed to protect the City and the fees necessary to finance incremental storm water facility improvements.

Policy

The City shall coordinate with CVWD in the development of drainage design standards and criteria for use by new development projects which will maintain the viability of CVWD's system agricultural tile drains.

Policy

The City shall require review of all development projects by the City Engineer and CVWD to address drainage, flooding, agricultural tile drains and any other relevant issues.

Policy

The City shall require that all new development provide adequate on and off-site stormwater collection, detention and retention facilities and fair share contribution to citywide master planned drainage facilities to contain stormwater and convey it to the Coachella Valley Stormwater Channel. All drainage facilities shall be designed according to City and CVWD standards.

Policy

The City will not approve development projects subject to localized or seismically induced flooding and other high risk inundation areas unless such hazards are mitigated to the satisfaction of the City and other responsible agencies.

Policy

The City and CVWD shall continue to coordinate the formation and administration of improvement districts to provide adequate collection, detention and retention facilities and conveyance to protect existing and future development.

Policy

In urban and suburban areas, the City shall require all existing and future development to provide curbs at the edge of all roadway pavement to provide maximum carrying capacity, using a minimum rise, to safely collect and transport street stormwater runoff to catch basins or other stormwater

conveyance facilities prior to achieving carrying capacity. Hillside areas shall provide for stormwater protection as specified by the City Engineer.

Policy

The City shall seek to minimize the extent of the 100-year flood plain, as defined by the Federal Emergency Management Agency (FEMA), to reduce the costs of development, structural insurance, flood hazards and to increase the amount of non-flood impacted, developable land in Coachella.

Policy

The City shall coordinate with the CVWD and FEMA to remove remnant areas of 100-year flood plain from the Flood Insurance Rate Map where no true flood hazard exists and to delineate the City's 100-year flood plain in areas outside of FEMA's current "limits of study". The Flood Insurance Rate Maps (FIRM) presently cover the incorporated City and Planning Area north of Avenue 54.

Policy

The City shall manage flood control facilities in accordance with local, state, and federal guidelines.

Objective

The City shall utilize alternative means to maintain and enhance surface water quality for the benefit of all Coachella residents and businesses.

Policy

The City shall continue its participation in the National Pollutant Discharge Elimination System (NPDES) stormwater program with associated monitoring and best management practices for reducing pollutants for both the municipal storm sewer system as well as the City's wastewater treatment plants.

Policy

The City shall require appropriate development projects to comply with NPDES construction requirements.

Policy

The City will encourage compliance with NPDES requirements by appropriate industries within the City's jurisdiction.

Objective

The City shall utilize alternative means to ensure the adequate provision of natural gas, electrical, cable television and telecommunications facilities to serve the domestic and commercial needs of the community.

Policy

The City shall coordinate with the Southern California Gas Company to ensure the perpetual delivery and accessibility of natural gas to serve all Coachella residents.

Policy

The City shall coordinate with the Imperial Irrigation District (IID) for the proper siting and timely provision of needed electrical facilities for the perpetual delivery and affordability of electricity to serve all Coachella residents.

Policy

The City shall investigate, in conjunction with the IID, the short and long term effects of electromagnetic fields produced by high voltage electrical facilities. The results of the investigation shall be considered when granting land use approvals relative to the future siting of new electrical substations and new development adjacent to existing high voltage electrical facilities.

Policy

The City shall coordinate with the IID to identify the locations of future high voltage corridors and to identify permitted uses, standards for development and the provision of access within existing and future corridors.

Policy

The City shall coordinate with the IID to evaluate alternative energy sources which augment traditional forms of energy production and usage.

Policy

The City shall coordinate with the General Telephone Company to ensure comprehensive, uninterrupted communication facilities and service for Coachella residents.

Policy

The City shall coordinate with cable television providers to execute franchise agreements to serve the City with additional television programming.

Policy

The City shall require the relocation of native or required street trees which must be trimmed due to their relationship to overhead utility lines where possible and where trimming will damage the health of the tree. Where relocation is not possible, and the overhead utility lines are not anticipated for undergrounding in the short term, the existing trees should be replaced with a species which will not grow to a height to interfere with the safe maintenance of the overhead utility lines.

Objective

The City shall promote the sensitive and aesthetic placement of utility structures and facilities within the community.

Policy

The City shall explore methods to achieve the undergrounding of existing overhead electrical lines, less than 12.5 kilovolts, to enhance the visual quality of the City.

Policy

The City shall require that all development and redevelopment projects install new on-site and off-site utilities underground.

Policy

The City shall coordinate with the Imperial Irrigation District, Southern California Gas Company, and General Telephone Company to develop standards for the sensitive integration of natural gas, electrical and telecommunications facilities within the City, especially where such improvements are visible along street frontages. Such standards may include buffering from adjacent development, screening of facilities, provision of access for maintenance, integration within desert landscape areas and other appropriate techniques.

Policy

The City shall develop standards for the sensitive integration of domestic water facilities, such as pump stations, well sites and water reservoirs within the City. The standards may include buffering from adjacent development, screening of facilities, provision of access for maintenance and integration within the desert landscape areas.

Policy

The shared use of major transmission corridors and other appropriate measures shall be encouraged as a means of preserving the aesthetic resources of the City and to lessen the visual impacts of such development. The City shall work with the appropriate agencies in developing these corridors for recreation use.

Objective

The City shall promote programs to divert and reduce solid waste generated in Coachella.

Policy

The City shall coordinate with the solid waste hauler to provide economical and environmentally safe collection, transfer and related waste management services.

Policy

The City shall coordinate with the Riverside County Waste Management Department, Coachella Valley Association of Governments (CVAG) and the solid waste hauler to achieve the programs as

established in the Source Reduction & Recycling Element and the Household Hazardous Waste Element to maximize the extended use of existing landfills serving the City.

Policy

The City shall encourage the use of recycled materials in products and services obtained through City purchases and contracts.

Policy

The City shall continue to coordinate with the solid waste hauler and Riverside County Waste Management Department to sponsor an annual clean up day to reduce the litter, blight and household hazardous waste in the City.

Goal

Adequate law enforcement and fire protection shall be extended to all citizens and businesses in Coachella.

Objective

The City shall ensure that adequate law enforcement, public safety and protection services are provided within the community to all residents and businesses.

Policy

The City shall achieve a high standard of police protection to adequately serve the City at full buildout to a standard of 1.3 sworn officers per 1,000 population.

Policy

The City shall develop and implement anti-crime programs, such as neighborhood watch programs, drug abuse resistance education programs and youth gang alternative programs.

Policy

The City shall explore innovative options of funding additional sworn officers, support staff and

equipment through the use of federal and state grants.

Objective

The City shall ensure that adequate fire protection facilities and emergency medical services are provided throughout the community.

Policy

The City shall achieve a high standard of fire protection to adequately serve the City at full buildout. The targeted standard of personnel per 1,000 population is 2.0. The targeted response time is five minutes or less. The service standard is to provide fire protection within a 1.5 mile radius from the fire stations.

Policy

The City shall coordinate with the Riverside County Fire Department to provide an adequate level of fire protection to the City through periodic review of its Fire Protection Plan until such time that City provided service is more economical or better serves its residents.

Policy

The City shall work with Riverside County to reduce the Insurance Services Office (ISO) rating to increase building safety and reduce insurance premiums for building owners of the City.

Policy

The City shall ensure the provision of adequate water pressure, fire hydrants and automatic sprinkler devices to suppress fires in the City.

Policy

The City shall coordinate with the Riverside County Fire Department to evaluate the siting of additional stations in Coachella as needed to serve future development.

Policy

For development in areas with 10 percent or greater slopes, special on-site fire protection measures shall be specified during project review to reduce the potential fire hazard.

Policy

The City and Riverside County Fire Department shall promote public awareness of fire and emergency procedures by expanding existing and developing new public fire safety and emergency life support education programs.

Policy

The City and Riverside County Fire Department shall coordinate with Emergency Medical Service Providers to ensure the provision of emergency transport and paramedic services to the City.

Goal

Educational, governmental and community service facilities shall be provided at adequate levels to ensure a high quality of life in Coachella.

Objective

The City shall promote the provision of adequate educational, library and community center facilities in Coachella.

Policy

The City shall coordinate with the Coachella Valley Unified School District (CVUSD) and Desert Sands Unified School District (DSUSD) to provide high quality education and recreation facilities located near residential areas containing the largest proportion of students in the City.

Policy

The City shall coordinate with the CVUSD and DSUSD to ensure that an adequate number of elementary, middle and high schools are provided with appropriate facilities and personnel to ensure

a quality education for all Coachella children and young adults at buildout.

Policy

The City shall coordinate with the CVUSD and DSUSD in the assessment of new development to determine its impact and mitigation on the existing public education facilities in Coachella.

Policy

The City shall enter into development agreements, when deemed advantageous to the City, with the CVUSD and DSUSD to assist in the purchase of land for recreation purposes, provision of recreation facilities, or ongoing maintenance to increase the Neighborhood and Community Park acreage and facilities for school students and to provide improved park space and activities for the public during non-school hours.

Policy

The City shall require the reservation of real property, with a future right to purchase, based on the master plan of the applicable school district, for the provision of necessary public educational facilities.

Policy

The City shall coordinate and communicate with the local post graduate institutions and school districts to locate satellite classes in local district facilities to provide accessible educational opportunities for City residents.

Policy

The City shall coordinate with the Riverside City/County Library System to provide adequate staffing, hours, space, facilities and volumes to serve the literary and educational needs of Coachella residents.

Policy

The City shall ensure the provision of adequate public meeting space and facilities are provided for citizens of all ages, including senior citizens and young people.

Objective

The City shall ensure the provision of adequate municipal governmental facilities in Coachella.

Policy

The City shall identify public building space needs and provide adequate, centralized space and facilities to efficiently manage and operate the City.

Policy

The City shall prepare a multi-year Capital Improvement Program (CIP) to prioritize needed improvements within Coachella on an annual basis. In addition, the CIP shall identify zones related to improvements and the nexus required for the imposition of development fees.

INFRASTRUCTURE & PUBLIC SERVICES IMPLEMENTATION MEASURES

The various actions, programs and strategies the City should take to implement the goals, objectives and policies of the Infrastructure & Public Services Element are presented on Figure 36, the City of Coachella Infrastructure & Public Services Element Implementation Measures.

- Implementation Measure - Includes a description of the action program and/or strategy which implements the infrastructure and public services development policies.
- Purpose - Identifies the intent and purpose of accomplishing the implementation measure.
- Key Participants - Identifies the appropriate public and/or private body, agencies, group, individuals or volunteers responsible to complete the implementation measure.

FIGURE 36
CITY OF COACHELLA INFRASTRUCTURE & PUBLIC SERVICES ELEMENT
IMPLEMENTATION MEASURES

Implementation Measures	Purpose	Key Participants
Prepare and adopt a Drainage Master Plan for the City of Coachella	Establish existing conditions, improvements and financing strategy needed	City Council Engineering Planning Department
Prepare and adopt a Water Master Plan for the City of Coachella	Establish existing conditions, improvements and financing strategy needed	City Council Engineering Planning Department
Prepare and adopt a Sewer Master Plan for the City of Coachella	Establish existing conditions, improvements and financing strategy needed	City Council Engineering Planning Department
Adopt the proposed Disaster Preparedness Plan, prepared in 1992	Provide a plan for conduct of public services during and following a disaster	City Council Police Department Riverside County Fire
Coordinate the formation of Improvement Districts to replace inadequate public facilities	Finance needed upgrades of public infrastructure	City Council City Manager Engineering Department
Revise and update the Capital Improvements Program and the necessary backup material for the imposition of development fees for regional streets, bridges, traffic signals, bus stop facilities, parks and water & sewer capacity improvements	Finance regional facilities whose need is created by new development	City Council Planning Commission City Manager Engineering Department Planning Department
Prepare a plan that evaluates the feasibility of providing recreational water features within the Entertainment Area	Provide waterways for recreation and transportation in the Entertainment Area	City Council Planning Commission Engineering Department Planning Department Coachella Valley Water District C. V. Recreation & Park District

Implementation Measures	Purpose	Key Participants
City shall prepare a plan that identifies illegal on-site wells and wastewater systems and to abate those systems	Assure quality water source and mandate connection to sewer service to ensure that health standards are met	City Council Building Department Engineering Department Code Enforcement
City shall evaluate the feasibility of providing tertiary treatment of wastewater and the provision of reclaimed water	Conserve domestic water supplies	City Council Engineering Department
City shall coordinate with Coachella Valley Water District and Federal Emergency Management Agency to remove remnant areas of 100-year flood plain from the Flood Insurance Rate Map where no true flood hazard exists and to delineate the City's 100-year flood plain in areas outside of FEMA's current limits of study	Appropriately designate areas of the City related to flood hazards	City Council Engineering Department Coachella Valley Water District Federal Emergency Management Agency Army Corp of Engineers
Review existing Curb, Gutter and Drop Inlet Standards to ensure maximum carrying capacity and function	Provide a functional standard for all future street stormwater facilities to be constructed in the City	City Council Engineering Department
Prepare a Feasibility Study to evaluate the potential to utilize geothermal energy	Provide alternate sources of energy	City Council Planning Department Imperial Irrigation District
Prepare a City Implementation Program for the Source Reduction and Recycling Element and Household Hazardous Waste Element	Accomplish AB939 and achieve a 25 percent and 50 percent waste diversion in the City's waste stream by 1995 and 2000, respectively	City Council All City Departments CVAG Riverside County
City shall coordinate with Imperial Irrigation District to identify and plan for the extension of transmission lines and construction of new substations	Assure needed facilities are available and are located in the most aesthetically pleasing manner	City Council Planning Department Imperial Irrigation District General Telephone Company
Develop and implement Anti-Crime Programs.	Reduce the amount of crime committed in the City	Coachella Police Dept CVUSD DSUSD CVRPD

Implementation Measures	Purpose	Key Participants
Identify site for new police station	Provide adequate facilities to provide service	City Council Police Department
Identify sites for additional Fire Stations to meet the standards for provision of service	Provide adequate facilities, response times and reduced fire insurance premiums for citizens and building owners	City Council Riverside County Fire Department
Provide sworn police officers in an adequate manner to meet the standard of 1.3 sworn officers per 1000 population and support staff as needed	Protect the citizens of Coachella	City Council City Manager Police Department
Provide firefighters in an adequate manner to meet the standard of 2.0 personnel per 1000 population	Protect the citizens of Coachella	City Council City Manager Riverside County Fire Department
Emergency Medical Services provided to the community need to be analyzed to determine their adequacy and alternate methods of meeting the needs	Protect the citizens of Coachella	City Council City Manager Riverside County Fire Department
City shall promote the provision of adequate educational, library and community center facilities in Coachella	Assure quality of life for the citizens of Coachella	City Council City Manager