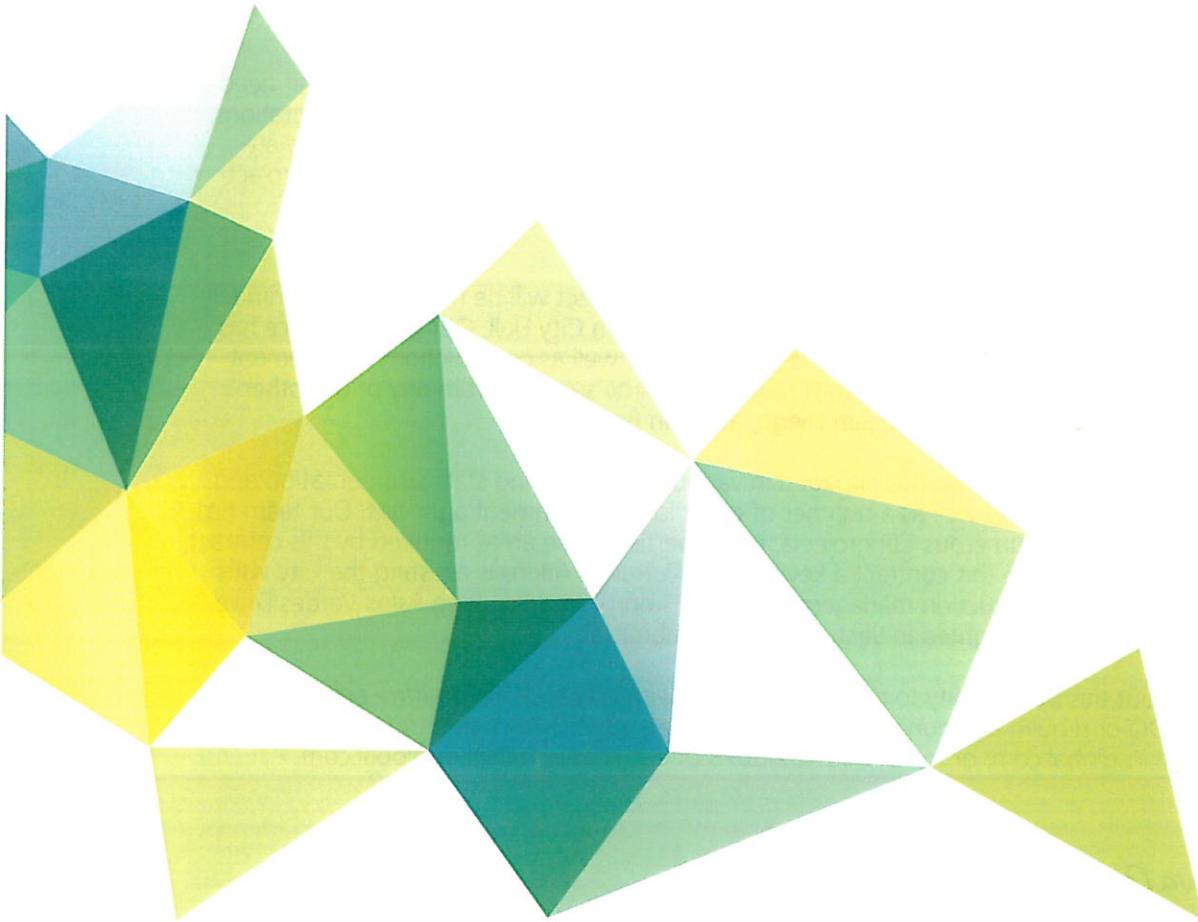


STATEMENT OF QUALIFICATIONS

# On-Call Consultant List for Engineering and Support Services

CITY OF RANCHO PALOS VERDES | 2015





**Atkins North America, Inc.**  
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Orange, California 92868-4946

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Pam Mitchell  
City of Rancho Palos Verdes  
30940 Hawthorne Boulevard  
Rancho Palos Verdes, CA 90275

**Subject: Statement of Qualifications for On-Call Engineering and Support Services**

Dear Ms. Mitchell:

The City of Rancho Palos Verdes is looking to update the on-call services consultant list. Atkins is currently on the City's consultant list and requests to remain on your list of consultants. We are enclosing our statement of qualifications for consideration.

**Atkins offers the following key benefits to the City:**

**Local and experienced project manager.** Atkins offers a dedicated team with related expertise and strong relationships, led by an experienced project manager. Fred Wickman, PE, will be the contract manager and serve as the City's main contact. Mr. Wickman has 27 years of municipal engineering experience including serving as city engineer for local agencies and providing contract staff augmentation services. This experience, combined with his design expertise, provides a diversified skill set to deliver comprehensive as-needed services to the City. Currently, Mr. Wickman manages the development review services contract for the Orange County Public Works Department, Planned Communities Section, as well as design of specific capital improvement program (CIP) projects.

**Depth of in-house resources to complete project assignments.** Atkins understands your need for an efficient and comprehensive consultant team and is dedicated to exceeding your expectations. Our team consists of professionals who are capable of independent engineering decisions and are experienced in the necessary coordination between private and public sectors for successful project completion. With more than 160 staff in our California offices, we can meet your full range of consulting needs.

**Local office to facilitate responsive service.** Work for this contract will be managed and primarily performed from our Orange office, which is less than an hour from City Hall. Our Orange office has a staff of 30 including civil, structural, and roadway engineers as well as construction management personnel. Additional technical support and staff resources can be supplied from any of our other southern California offices in Los Angeles, San Diego, and San Bernardino.

**Demonstrated track record.** Atkins has engaged in various long-standing staff augmentation and on-call contracts with the City as well as a number of other local government agencies. Our team has successfully collaborated on numerous CIP projects, has expertise in the areas required by this contract, and has the availability to make this contract a key priority. Currently Atkins is assisting the City with project management and construction management for CIP improvements along Palos Verdes Drive. Relevant firm experience is highlighted in Section 3 of this submittal.

We are excited about this opportunity to continue working with City staff. If you have any questions concerning our SOQ or require additional information, please contact Mr. Wickman at 714.591.2517 or [fred.wickman@atkinsglobal.com](mailto:fred.wickman@atkinsglobal.com), or me at 805.432.6678 or [earl.schwartz@atkinsglobal.com](mailto:earl.schwartz@atkinsglobal.com).

Sincerely,

Earl Schwartz, PE, QSD  
Construction Manager

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### 1. Firm Overview

Atkins is a leading provider of planning, engineering, environmental, architecture, construction, and program management services. We offer comprehensive consulting services to public and private clients facing the challenges of new and aging infrastructure, sustainability, smart growth, program funding, and limited staff. Atkins provides comprehensive consulting services for municipalities including engineering design, construction management, traffic engineering, plan check, and engineering support services.

Atkins offers comprehensive consulting services to public and private clients facing the challenges of new and aging infrastructure, sustainability and smart growth, program funding, and limited staff. Our integrated approach to project solutions builds value for clients and helps to advance the best practices of the industries we serve. Atkins has six offices throughout California, staffed with 160 technical professionals who offer the advantage of regional expertise. Atkins provides a tremendous depth of resources and technical capabilities without losing the local connection and knowledge needed to be successful in a capital improvement endeavor. To meet the needs of this on-call contract, the Atkins team offers:

- History of on-call consultant services for municipalities
- Knowledge of city, county, state, and federal requirements
- Required licenses to support this contract
- Relevant fields of expertise

#### History of on-call consultant services for municipalities

Atkins has successfully provided on-call consulting services for numerous cities, counties, special districts, and agencies throughout southern California, including the including County of Orange, City of Irvine, City of Long Beach, City of Glendale, City of Inglewood, Riverside County Transportation Department (RCTD), Los Angeles World Airports, Orange County Flood Control District, and others. Our staff has designed and managed all types of CIP projects—from planning through construction—including street widening and rehabilitation, storm drain systems and drainage, water and sewer infrastructure, traffic signals, water quality, construction management, and inspection. We also offer environmental compliance and landscape architecture.

### Atkins

**Number of employees in Southern California:** 130  
**Number of employees in U.S.:** 2,400  
**Headquarters:** Tampa, Florida  
**Branch offices:** 70 offices throughout the U.S., 6 offices in California  
**Location servicing this contract:** Orange  
**Years in business:** 55 (in North America)  
**Length of time providing services in the public and private sectors:** 30 years in California  
**Ownership:** Corporation

### Knowledge of city, county, state, and federal requirements

Atkins has established relationships with the permitting agencies, and our understanding of the requirements allows us to complete applications faster and with fewer permit reviews. We have prepared permits for California Coastal Commission, USACE, Caltrans, California Department of Fish and Wildlife (CDFW), and others. Our staff can quickly assess permitting requirements, maneuver through the permitting process, and design a project that complies with all environmental requirements. Our staff includes certified QSD/QSP professionals to prepare water quality management plans (WQMP) and stormwater pollution prevention plan (SWPPP) documentation, incorporating construction and post-construction (permanent) best management practices (BMP) that are compliant with the Municipal Separate Storm Sewer System (MS4) Permit and specific agency requirements. Atkins can assist with inspection of SWPPP compliance during construction.

Atkins has assisted municipalities with local, state, and federal funding from planning through construction for a wide range of projects. We have worked on numerous projects requiring extensive inter-agency coordination with the City of Los Angeles, USACE, Caltrans, County of Orange, Orange County Flood Control District, Orange County Sanitation District (OCS), Santa Ana Regional Water Quality Control Board, Orange County Transportation Authority (OCTA), Union Pacific Railroad, Metrolink, and various project stakeholders. We are familiar with the Caltrans Local Assistance Procedures Manual (LAPM) and federal requirements. During the preparation of the construction contract documents for any federally-funded project, we will review the LAPM plans, specifications, and estimate (PS&E) Checklist to verify all applicable sections are included. Atkins staff can either support City staff with the preparation of the required submittal to Caltrans or we can take the lead and prepare the documents on the City's behalf. Either way, the City can be assured the contract documents will comply with the funding requirements. Our comprehensive understanding of the City's policies, procedures, and design standards as well as working relationships with local agencies will facilitate efficient execution of project assignments.

## Required licenses to support this contract

Atkins maintains the necessary licenses, permits, and certifications in accordance with laws, ordinances, rules, and regulations of various federal, state, county, and municipal agencies. Atkins will maintain these throughout the life of the contract including our current business license with the City.

## Relevant fields of expertise

### Engineering and technical support

- Project management, program management, and staff augmentation
- Street improvements, pavement rehabilitation, and highway design
- Storm drainage and flood control design
- Stormwater pollution prevention plans (SWPPP)
  - » Qualified SWPPP Developer (QSD)
  - » Qualified SWPPP Practitioner (QSP)
- Permitting and coordination
  - » Federal, state, and local agencies
  - » Funding applications
- Accessibility compliance in accordance with the Americans with Disabilities Act (ADA) and state laws
- Community outreach
- Site civil design
- Structural engineering
- Assessment engineering
- Water, wastewater, and recycled water design
- Development review and third-party plan checking

### Construction administration

- Constructability review
- Value engineering
- Contract administration
- Construction engineering and inspection
- Resident engineering
- Project controls
  - » Scheduling
  - » Cost estimating
- Construction management
- Project documentation
- Change management and claims avoidance
- Post-construction
  - » Dispute analysis/resolution
  - » Maintenance programming
  - » Warranty inspection
  - » Financing inspection
  - » Final reports
  - » As-built drawings
  - » Facilities startup and commissioning

### Planning

- Hydraulic modeling
- Alignment and feasibility studies
- Facility planning
- Cost analysis
- Economic analysis
- Financial analysis and rate studies
- Permit strategies
- Water reclamation and advanced treatment evaluations
- Groundwater investigations and treatment
- Inter-agency agreements
- Capital program development and management
- Grant funding research and applications
- GIS
- Emergency management and response

### Environmental compliance

- Compliance with CEQA and NEPA
  - » Categorical Exemptions and Exclusions (CE)
  - » Initial Studies and Mitigated Negative Declarations (IS/MND)
  - » FONSI, EA, EIR, and EIS
- Filing of Record of Decision
- CEQA/NEPA compliance training
- Technical reports (all resource areas)
  - » Air quality and noise
  - » Greenhouse gas (GHG)
  - » Cultural resources and geology
- Biological assessments and inventories
- Focused endangered species surveys per U.S. Fish and Wildlife Service (USFWS) protocols
- Endangered species permitting
- Wetland delineations and permitting
- Construction mitigation and monitoring
- Public hearings and presentations
- Habitat management plans and site restoration



**Atkins provided construction management, inspection, and document controls for Bellflower Boulevard and Woodruff Rehabilitation project for the City of Bellflower.**

## 2. Team Qualifications

Atkins has assembled a diverse and flexible team of specialists to complete project assignments. Due to the nature of the proposed services, we anticipate the assigned staff will vary during the course of the contract, dependent on the type of project assignment.

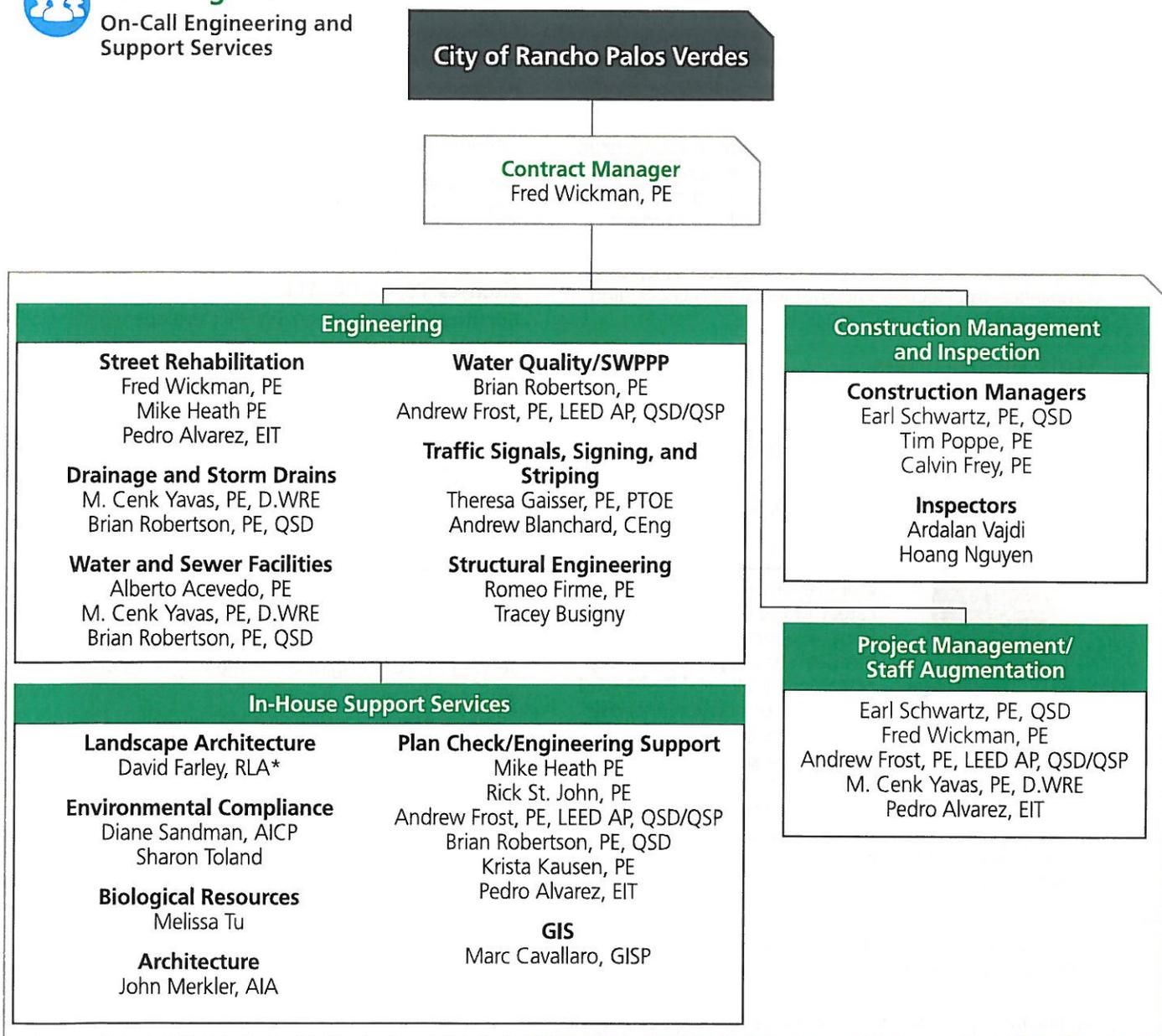
Atkins considers the qualifications and expertise of project team members to be the foundation of project success. This contract requires the leadership of a consultant team

with broad-based experience, local presence, depth of resources, and history of working with local government agencies. The Atkins team fulfills these requirements. Our team has successfully collaborated on numerous CIP projects, has expertise in the areas required by this contract, and has the availability to make this contract a key priority. The organizational chart, shown below, illustrates our team available to meet your project needs. Team qualifications are further highlighted in the team biographies. Full resumes will be provided upon request.



### Team organization

On-Call Engineering and Support Services



0410-0021-0115

## Task order leadership

Atkins offers an experienced team led by **contract manager Fred Wickman, PE**, who will be responsible for project direction and management, overall team performance, design participation and management, and coordination between the City and the project team.

Mr. Wickman will respond to City requests, handle day-to-day activities, identify assignment needs, review and approve task plans, attend project meetings as needed, disseminate project information, and verify proper adherence to the project scope, schedule, and cost. Mr. Wickman and necessary key staff will be readily available for meetings with the City and others as required. His responsibilities begin with a specific definition of the scope of services, identification of the level of effort and schedule requirements for each task in the detailed work plan, and assignment of primary task and deliverable responsibilities to each involved staff member.

Mr. Wickman will be supported by a team of experienced professionals who will not be replaced without prior written approval of the City. He will ensure that the right staff is available at the right time to fulfill your project requirements. Our team offers broad experience in street rehabilitation, storm drain conveyance, accessibility compliance, intersection improvements, plan check, and support services.

## Staff biographies

### Fred Wickman, PE

Contract Manager, Street Rehabilitation

**Education:** B.S., Civil Engineering, Michigan Technological University

**Licenses:** Professional Engineer (PE), CA 47979



Fred Wickman has 26 years of municipal engineering and public works experience. He began his career at the Orange County Public Property Permits Division, has been employed by the City of Baldwin Park, and has served as director of public works/city engineer for the City of Stanton.

His consulting career began in 1994 providing contract city engineering services to the City of Rosemead, followed by an assignment as the supervisor of the public works design division. Mr. Wickman has also served as interim deputy city engineer for the cities of Villa Park and Los Alamitos, as well as contract assistant city engineer for the City of Hawaiian Gardens.

With his public and private sector experience, Mr. Wickman is familiar with the approval and permitting procedures of federal, state, county, and local jurisdictions and has significant experience with numerous funding sources. His broad experience in both sectors involving city engineering, project management, and supervision of design teams

enables him to provide a range of consulting services in municipal engineering. During the past 10 years, Mr. Wickman has been primarily involved in providing design and staff augmentation services to public agencies. He managed municipal CIP projects for several years and completed street improvements in the cities of Rancho Palos Verdes, Paramount, Lynwood, Cudahy, Bell Gardens, Hawaiian Gardens, Carson, Maywood, Whittier, Rolling Hills Estates, Lakewood, Lawndale, and Redondo Beach. His relevant experience includes:

- Annual Overlay and Slurry Projects for FY 1998–99, 1999–00, 2000–01, City of Rancho Palos Verdes
- Kingsdale Avenue Widening and Traffic Signal Modifications, City of Redondo Beach
- Street Rehabilitation Projects, City of Long Beach
- Irvine Business Complex Sidewalk, Phase IV, City of Irvine
- 120th Street et al., County of Los Angeles
- 17th Street and 19th Street Roadway and Parkway Improvement Projects, City of Costa Mesa

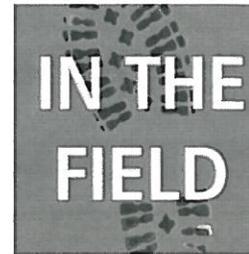
### Earl Schwartz, PE, QSD

Construction Manager, Field Representative

**Education:** B.S., Engineering, California State University Northridge

**Licenses:** PE, CA C64411

**Certifications:** Qualified SWPPP Developer (QSD), No. C64411, 2014; State of California Office of Emergency Services Safety Assessment Program Evaluator, ID 74749



Earl Schwartz has 22 years of experience in design and construction management involving master plan residential, commercial, and institutional developments as well as municipal capital improvement projects for streets and utilities. Mr. Schwartz is a licensed civil engineer and

a qualified SWPPP developer (QSD). He offers municipal engineering and construction experience gained from serving as a city engineer for the City of Lawndale, contract staff augmentation for the City of Moorpark and Rancho Palos Verdes, and civil engineering assistant for the City of Los Angeles Department of Public Works, Bureau of Engineering. His relevant experience includes:

- Palos Verdes Drive East Improvements, City of Rancho Palos Verdes
- Palos Verdes Drive East Retaining Walls, City of Rancho Palos Verdes
- Palos Verdes Drive West Landscape Median Improvements, City of Rancho Palos Verdes
- Rosemead Boulevard at Telstar Avenue Traffic and Street Improvement Project, City of El Monte
- Hollywood Park Mixed-Use Redevelopment Project, City of Inglewood

**M. Cenk Yavas, PE, D.WRE**

Drainage and Storm Drains, Water and Sewer Facilities, Project Management

**Education:** M.S., Civil Engineering, California State University, Long Beach; B.S., Civil Engineering, Istanbul Technical University

**Licenses:** PE, CA 54756

**Certifications:** Diplomate Water Resources Engineer (D.WRE), American Academy of Water Resources Engineers



Cenk Yavas has 26 years of planning and design experience in storm drain, water, sanitary sewer, and street improvements throughout the counties of Los Angeles, Orange, Riverside, and San Bernardino. His experience includes all aspects of planning and design of both public and private

drainage and sewer facilities in various cities of Los Angeles County including South Gate, Lynwood, Compton, Vernon, and Long Beach. Currently, he provides drainage design to ensure compliance with the City of Los Angeles' Standard Urban Stormwater Mitigation Plan (SUSMP) program on the LAX West Maintenance Facilities project for Los Angeles World Airports (LAWA).

During the last 10 years, Mr. Yavas has designed numerous CIP projects and worked with various agencies including Los Angeles County Department of Public Works, USACE, Orange County Flood Control District (OCFCD), Riverside County Flood Control and Water Conservation District, Los Angeles County Sanitation District, Orange County Sanitation District (OCSA), and the Cities of Anaheim, Garden Grove, Laguna Beach, Newport Beach, and Los Angeles. He has also coordinated extensively with regulatory permitting agencies such as the Regional Water Quality Control Board, California Coastal Commission, and Caltrans. Mr. Yavas offers the required technical leadership to successfully support the City and our proposed team. His relevant experience includes:

- LAX West Airfield Maintenance Area Facilities Design, Los Angeles World Airports
- Project No. 9037, Unit 4, Line D, Los Angeles County Department of Public Works, Long Beach
- Accelerated Road Projects, Los Angeles County Department of Public Works
- Project No. 9921 Drain Relocation, Alameda Corridor Transportation Authority/Los Angeles County Department of Public Works
- Newland Avenue and Yockey Street Storm Drain Junction Line B-5, City of Garden Grove
- Modjeska Grade Road Storm Drain and Pavement Repair, County of Orange
- On-Call Development Review Services, Riverside County Flood Control and Water Conservation District (RCFC&WCD)

**Mike Heath, PE**

Street Rehabilitation, Plan Check/Engineering Support

**Education:** B.S., Civil Engineering, California State University, Long Beach

**Licenses:** PE, CA 63401



Mike Heath has 16 years of experience in design and preparation of construction documents for street, storm drain, and sewer improvements; grading and demolition plans; and right-of-way engineering documents. His experience includes pavement rehabilitation,

asphalt overlay, curb and gutter replacement, storm drain infrastructure, landscaped medians, signing and striping, signal modifications, ADA-compliant ramps, and traffic improvements. He is currently providing CIP project management and design services for the Riverside County Transportation Department (RCTD). Mr. Heath has provided development review and plan check services for several agencies in southern California. Relevant experience includes:

- Bronco Drive Storm Drain Improvements, City of Rancho Palos Verdes
- On-Call Land-Use Planning and Engineering Services, Orange County Public Works, Planned Communities
- Agua Mansa Road and Market Street Intersection Improvements, RCTD
- Newport Road Widening, City of Menifee
- Old Elsinore Road, Clark Street, and Rider Street Intersection Improvements, RCTD
- Garfield Avenue Sidewalk Improvements, RCTD
- Lincoln Avenue Median Beautification, City of Anaheim
- Walnut Avenue Pavement Reconstruction, City of Orange
- Street Maintenance Program, City of Villa Park

**Brian Robertson, PE, QSD**

Drainage and Storm Drains, Water and Sewer Facilities, Water Quality/SWPPP, Plan Check/Engineering Support

**Education:** B.S., Civil Engineering, Cal Poly San Luis Obispo

**Licenses:** PE, CA 77990

**Certification:** QSD, 77990



Brian Robertson has 8 years of engineering experience focusing on stormwater, water, wastewater, and reclaimed infrastructure projects. He currently provides storm drain design and water quality plan review services for the County of Orange and RCFC&WCD. His expertise includes design of new and

rehabilitated storm drains, fire protection, urban stormwater mitigation, and erosion control as well as third-party plan review. His experience encompasses utility investigation, detailed design documents and specifications, identification

of existing conditions, coordination with various utilities and other governmental agencies, incorporation of as-builts into project plans, and research for potential utility conflicts. For LAWA, Mr. Roberson serves as drainage project engineer supporting the LAX West Maintenance Facilities Design. He is working on the new and rehabilitated storm drains, water quality treatment facilities, fire protection, urban stormwater mitigation plan, and erosion control as well as third party plan review. Mr. Robertson offers extensive hydrology and design experience to support project assignments. His relevant experience includes:

- LAX West Airfield Maintenance Area Facilities Design, LAWA
- On-Call Land-Use Planning and Engineering Services, Orange County Public Works
- On-Call Plan Check Services, RCFC&WCD
- On-Call Engineering Services for Prado Dam Improvements, Orange County Flood Control District

#### **Andrew Frost, PE, LEED AP BD+C, QSD/QSP**

*Water Quality/SWPPP, Plan Check/Engineering Support, and Project Management*

**Education:** M.B.A., Business Management, and B.S., Civil Engineering, San Diego State University

**Licenses:** PE CA 77724

**Certifications:** LEED AP; Qualified SWPPP Developer (QSD) No. 20066; Qualified SWPPP Practitioner (QSP), AutoCAD Civil 3D Certified Professional



Andrew Frost has 6 years of experience in civil engineering design including pipelines, sewer mains, storm drains, utilities, roadway, grading, and site design. He has provided support for water quality management plans (WQMP) to comply with the Municipal Separate Storm Sewer System (MS4)

permitting, has prepared stormwater pollution prevention plans (SWPPP), and has incorporated post-construction best management practices (BMP) into project designs to meet local and statewide requirements. He is highly versed in three-dimensional design and drafting including the use of AutoCAD Civil 3D, Navisworks, and building information modeling (BIM). His relevant experience includes:

- Glendale Narrows Riverwalk, City of Glendale
- Theme Park Attraction, Los Angeles
- On-Call Land-Use Planning and Engineering Services, Orange County Public Works
- Sewage and Stormwater Pump Station Improvements, Channel Islands Air National Guard, Port Hueneme
- Regional Transportation Improvement Program FY 14-15, City of Imperial Beach

#### **Alberto Acevedo, PE, PMP, BCEE**

*Water and Sewer Facilities*

**Education:** M.S., Environmental Engineering, University of California, Irvine; B.S., Chemical Engineering, University of Guadalajara, Mexico

**Licenses:** PE, CA 34255; PE, AZ, NV, and TX

**Certifications:** BCEE, 85-10029; PMP



Alberto Acevedo has 39 years of water, recycled water, and wastewater engineering experience. Mr. Acevedo joined Atkins after serving as contract project manager for OCSD. While with OCSD, Mr. Acevedo managed all phases of each project life cycle from preliminary and final design to project closeout. Mr. Acevedo is a board-certified environmental engineer (BCEE) and project management professional (PMP). His relevant experience includes:

- Technical and CMOM Support Services, City of Los Angeles
- Final Effluent Sampler and Building Area Upgrades (J 110), OCSD
- Westside Pump Station Station (3-52), OCSD
- Magnolia Trunk Sewer Rehabilitation (3-58), OCSD
- Farmersville Wastewater Treatment Plant Design, Farmersville

#### **Theresa Gaisser, PE, PTOE**

*Traffic Engineering*

**Education:** B.S., Civil Engineering, University of Nevada, Las Vegas

**Licenses:** PE, CA 69442; PE, NV 17395; PE, AZ 50717; PE, UT 7580518-2202

**Certifications:** Professional Traffic Operations Engineer (PTOE)



Theresa Gaisser has 14 years of experience in traffic engineering. Her planning and operations responsibilities range from traffic modeling to signal timing, and from operational analyses to traffic impact studies. For design, her expertise encompasses signing and striping, traffic signals/lighting,

traffic control, and ITS design including fiber-optic signal interconnect, ITS device layouts, and dynamic message signs. She is skilled in a wide range of traffic engineering software. Her relevant experience includes:

- Newport Road Widening and Intersection Improvements, City of Menifee
- I-405 West County Connector, Orange County Transportation Authority
- F Street Reopening Signal and Pavement Marking Design Services, City of Las Vegas
- Losee Road Improvements Design, City of North Las Vegas

### Romeo Firme, PE

#### Structural Engineering

**Education:** M.Eng., Structures, California State Polytechnic University, Pomona; B.S., Civil Engineering, University of the Philippines

**Licenses:** PE, CA 43929



Romeo Firme has 26 years of planning and design experience in structural engineering including railroad crossings and underpasses, interchanges, viaducts, and seismic retrofit as well as bridge widening, replacement, and rehabilitation. He has been involved in Caltrans and local agency projects including highway bridge replacement and rehabilitation (HBRR) and land development. His relevant experience includes:

- Reach 9-2B Lower Santa Ana River Channel, Access Road, and Bridge, Orange County
- SR 91 Widening (SR 241 to Pierce Street) Project Report/ Environmental Document, Riverside County Transportation Commission
- Crown Valley Parkway Widening, City of Laguna Niguel
- Spillway Modification for Mabey Canyon Debris Basin, County of Riverside

### Pedro Alvarez, EIT

#### Street Rehabilitation, Plan Check/Engineering Support, Staff Augmentation

**Education:** B.S., Civil Engineering, California State Polytechnic University

**Certifications:** EIT, CA 145072



Pedro Alvarez has 3 years of municipal experience related to land development, infrastructure, and engineering support. Prior to joining Atkins, Mr. Alvarez was an assistant engineer with the City of Corona. He performed building plan checks; hydraulic modeling and information gathering

tasks to update water, sewer, and recycled water master plans; managed potable water pipeline projects including replacements and extensions; and prepared design plans in AutoCAD for various projects. At Atkins, he is responsible for project engineering tasks to support several projects and provides plan review support for various clients. His relevant experience includes:

- On-Call Land Use Planning and Engineering Services, Orange County Public Works
- As-Needed Plan Check Services, City of Dana Point On-Call Plan Check Services, RCFC&WCD
- Assistant Engineer, City of Corona, Department of Water and Power

### Tim Poppe, PE

#### Construction Management

**Education:** B.S., Mechanical Engineering, University of Dayton

**Licenses:** PE, CA 34829

**Certifications:** Caltrans Resident Engineer Certification; Click Safety, OSHA 10-hour Construction Certification, 7727961



Tim Poppe has 15 years of experience as a professional engineer. He has worked in the construction, transportation, and manufacturing industries in various levels of responsibility. He also has extensive experience with developing, interpreting, and modifying contract language and

clauses utilized in public works improvement projects. His past project management responsibilities have included reviewing and interpreting contract plans and specifications, answering and processing RFIs, review and adjust project schedules, disposition of technical submittals, and writing contract change orders and general correspondence. He has even developed customized web-based and mobile device applications specific to project control and tracking. His relevant experience includes:

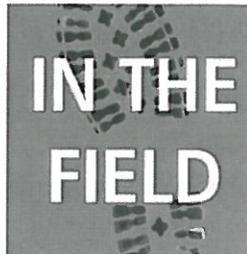
- Rosemead boulevard at Telstar Avenue Traffic and Street Improvements, City of El Monte
- Proposition C Traffic Signal Enhancement, City of El Monte
- Interim Bus Rapid Transit Stations, SANDAG
- I-215 Bruce Woodbury Beltway from Tenaya Way to Decatur Boulevard, Clark County, NV

### Calvin Frey, PE, PLS

#### Construction Manager

**Education:** B.S., Civil Engineering, Northern Arizona University, 1969

**Licenses:** PE CA, 27538 and AZ 10499; PLS AZ 17215



Calvin Frey has 38 years of experience in municipal engineering; earthwork and infrastructure design and construction; contract preparation and management; land planning and entitlement; land reclamation; hazardous waste management and remediation; and open pit

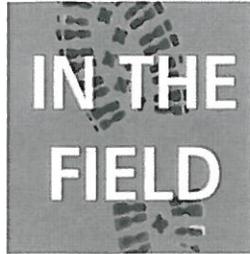
mining operations. He has managed the construction of many projects throughout California and Arizona. Relevant experience includes:

- Fanita Ranch Master Planned Community, Carlton Santee Corporation
- Upper San Diego River Improvement Project, CalMat Properties Company
- Lake Havasu City Wastewater System Expansion Program, City of Lake Havasu City

**Ardalan Vajdi**

Inspection

**Education:** M.Sc, Construction Management, London Kingston University; B.Sc., Civil Engineering, London South Bank University



Ardalan Vajdi is a construction inspector who has 11 years of experience in supervision, design, and inspection of utilities, structures, and heavy civil construction. He has variety of international experience including inspection work on Crossrail in London, one of the largest heavy

civil engineering projects in Europe. He has a wide range of civil infrastructure experience in the UK and Africa. He was the resident engineer for two 30-story commercial and residential towers in Luanda, Angola. Mr. Vajdi was the lead inspector of the Deep Tube Tunnels involved in Metronet (London Underground Limited) inspections and assessments, and also heavily involved in Olympics power line underground tunnels inspection of utilities and structures and structural assessment and ground monitoring. Relevant experience includes:

- Rosemead Boulevard at Telstar Avenue Traffic and Street Improvement Project, City of El Monte
- Proposition C Traffic Signal Enhancement, City of El Monte
- Cross Rail-London Railway, London, England

**Hoang Nguyen**

Inspection

**Certifications:** ACI Concrete Field Testing Technician Grade I 01026684; USACE Construction Management Certificate



Hoang Nguyen has 31 years experience in the construction industry, primarily in pipelines, structures, pump stations, storage tanks, and tunnels. He has direct involvement from conceptual design phase, review through design, construction, inspection, testing, and system turnover and project

closeout. Relevant experience includes:

- Inspector, City of Dana Point Public Works Department
- State Highway Bridges, Caltrans, Imperial County
- Valley Center Storm Drain Repair, County of San Diego
- Del Obispo Park Restroom/Concession Building, City of Dana Point



**Team availability and commitment**

With Atkins on your team, you can start immediately and stay on schedule. We fully understand the need to coordinate multiple staff assignments for specific projects. Atkins' resources are coordinated on a weekly basis, providing the flexibility to handle the peaks and valleys of workloads. Atkins brings a proven track record of delivering projects on time and within budget. We have the ability, dedication, and wealth of similar experience necessary to make it happen.

**Working relationships with specialty subconsultants**

From time to time, the City may advertise a project that requires a specialty consultant for tasks such as survey, geotechnical, potholing, or right-of-way acquisition. Atkins will provide the necessary support services in our scope of work for awarded projects. We can draw upon our established relationships with local specialty firms, or we can subcontract with a firm preferred by the City.

**3. Relevant Experience**

The members of the Atkins team have the knowledge and experience to complete various project assignments including street rehabilitation, storm drain construction, new traffic signals or modifications, sidewalk improvements, ADA-compliant facilities, construction management, and support services. Projects highlighted in this section involve work components that may be similar to the City's CIP.

Currently, **Atkins is providing as-needed services to support the City's CIP projects including Palos Verdes Drive East Improvements, Palos Verdes Drive East Retaining Walls, and Palos Verdes Drive West Landscape Median Improvements.**

Due to our extensive experience providing design and construction services for CIP projects, the Atkins team is qualified to efficiently execute any assignment for the City. Our diversified experience in municipal engineering, plan checking, and construction management means we will have no learning curve and will hit the ground running on your projects, resulting in time and cost savings to the City.

The Atkins team believes our local experience, knowledge, and spirit of collaboration are essential to developing a successful partnership with the City. We will listen to the City's needs and work closely with your staff to exceed your goals.

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# Rosemead Boulevard at Telstar Avenue Traffic and Roadway Improvements

## El Monte, California

# ATKINS



Atkins is providing construction management and inspection services on this \$1.4 million Caltrans Local Assistance Program project, which includes roadway widening, traffic signal improvements, pavement overlay, and pedestrian access safety improvements utilizing federal funds for the Arterial Highway Rehabilitation Program.

The project consists of widening 0.5 miles of six-lane arterial highway and local two-lane roadway, traffic signal improvements, catch basin drainage modifications, new curb and gutter, new raised medians, and curb ramps. Traffic control plans and large amounts of equipment and delivery staging were daily challenges during construction.

Atkins staff reviews all contract submittals, responds to RFIs, generates monthly pay applications, issues correspondence, reviews change orders, and weekly statements of working days. Atkins is coordinating with Caltrans staff to resolve issues within its right-of-way.

The City of El Monte did not retain a designer; therefore, all field issues and conflicts were resolved under Atkins' direction. In addition to these challenges and due to federal funding, this project was governed by the Caltrans Local Assistance Program and required extensive documentation of testing and inspection, careful review of payroll records, and oversight of all aspects of National Pollutant Discharge Elimination System stormwater compliance including implementation of a stormwater pollution prevention program and best management practices.

#### Client

City of El Monte

#### Completion date

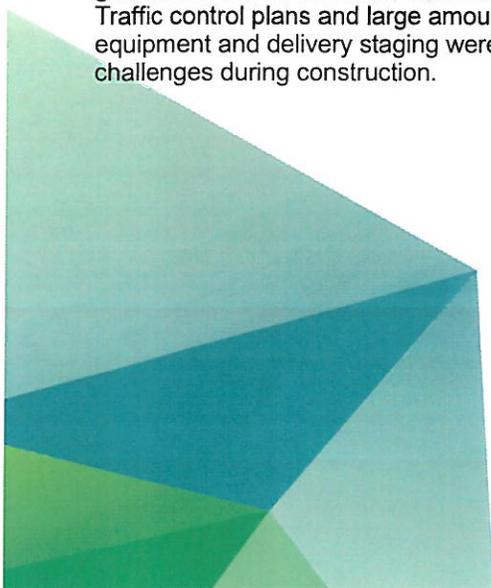
2015

#### Project cost

\$204,978 (fee)

#### Services provided

- Construction management
- Inspection
- Document control
- Federal funding compliance
- Traffic control
- Contract administration



# Kingsdale Avenue Widening and Signal Modifications

## Redondo Beach, California

In conjunction with the South Bay Intermodal Transit Center project for the City of Redondo Beach, Atkins provided engineering services for the Kingsdale Avenue Widening from Grant Avenue to Artesia Boulevard. The roadway improvement project was part of Atkins' contract involving A-E design services for Phase I of a three-phase development of the transit center that will replace the existing, inadequate transit center to improve overall public bus transportation service and mobility in southwestern Los Angeles County. Improvements were required due to the anticipated increase in traffic as a result of the new transit transfer center on Kingsdale Avenue.

Atkins prepared the PS&E for the widening of Kingsdale Avenue at the "T" Intersection with Artesia Boulevard to provide an additional travel lane. The project included preparation of traffic signing and striping plans; traffic signal modification at the intersection of Kingsdale Avenue and Artesia Boulevard; and new pavement, curb, gutter, and sidewalks. The demolition of the existing transit center located on the east side of Kingsdale Avenue, south of Artesia Boulevard, will provide the necessary right-of-way to provide an additional northbound travel lane. Through negotiations between the City and adjacent property owners, the project included additional on-site parking for the commercial development.



Pre-construction conditions shown

### Client

City of Redondo Beach

### Completion date

2013 (design)

### Project cost

\$645,000

### Services provided

- Design
- Preparation of plans, specifications, and estimates
- ADA compliance
- Drainage improvements
- Stormwater quality
- Traffic signal modifications
- Pavement resurfacing

# Bellflower Boulevard and Woodruff Avenue Rehabilitation and Downey Avenue Pavement Rehabilitation

## Bellflower, California

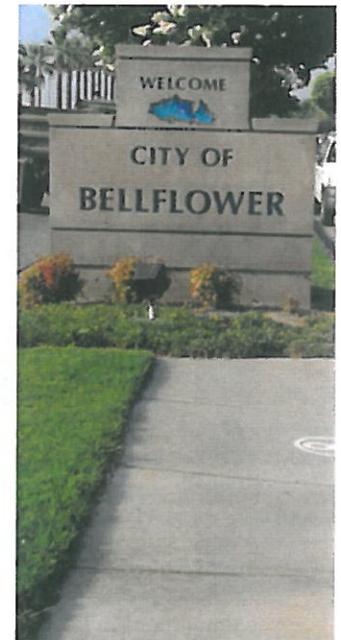


Atkins provided construction management, field inspection, and document control services to the City of Bellflower for the federally funded Bellflower Boulevard and Woodruff Avenue Rehabilitation project and the ARRA funded Downey Avenue Pavement Rehabilitation project. These projects included replacement of damaged curbs, gutters, and sidewalks; installation of ADA-compliant curb ramps; and grind and asphalt concrete overlay of major city streets.

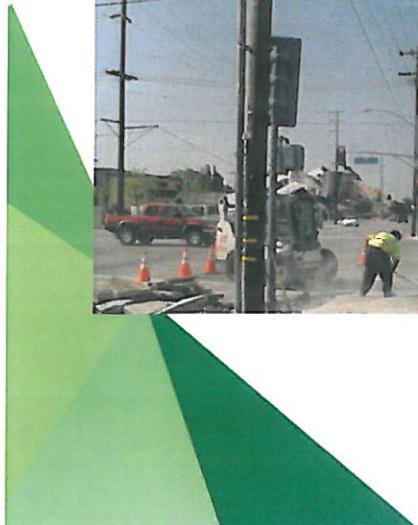
The Downey Avenue project was within Caltrans right-of-way and was constructed under an encroachment permit. Additional related work included public notification, temporary traffic control, subgrade repair, root pruning, manhole adjustment, traffic signal loop installation, and temporary and final striping.

Other services included general civil inspection, oversight of any surveying performed by the contractor, construction and schedule management, labor compliance, DBE compliance, quality assurance, progress payment review and approval, change order review, coordination and review of submittals, and contract administration.

Atkins assured contractor compliance to the specifications and documented all project activities in accordance with federal requirements. Documents were prepared for a post construction audit performed by the Caltrans Local Assistance Engineer.



- Client**  
City of Bellflower
- Completion date**  
2011
- Project cost**  
\$126,600 (fee for both projects)
- Services provided**
  - Construction management
  - Inspection
  - Document control
  - Traffic control
  - Contract administration



# Los Angeles International Airport (LAX) West Maintenance Area Expansion

## Los Angeles, California



Atkins is providing engineering services for the expansion of the West Maintenance Area. As part of Los Angeles World Airports' commitment to accommodate expected growth in A380 and other widebody aircraft operations at LAX, the West Maintenance Area (WMA) is intended to provide needed aircraft maintenance and servicing area, aircraft parking, and access to proposed A380 maintenance hangar facilities. Some design elements include:

- Storm drainage collection system
- Water quality treatment facilities in accordance with standard urban stormwater mitigation plan (SUSMP) and low impact development (LID) guidelines
- Potable water service
- Fire water line and fire hydrants
- Removal and reconstruction of the existing vehicle service road
- 300,000 cubic yards of cut
- Abandon in place (or removal) existing gas line, fuel line, water service
- Urban stormwater mitigation plan and erosion control plan
- Temporary and permanent tie-ins to existing service roads
- Relocation, adjustment, and in-place protection of existing Federal Aviation Administration (FAA) communications; other communication lines; Southern California Edison 66 kV underground electrical power transmission and communication lines; telephone, storm drainage, and sanitary sewer lines that cross the site



In compliance with the City of Los Angeles requirements, Atkins designed a hydrodynamic separator and infiltration basin for the approximately 80-acre site. The stormwater quality system operates first with separation of trash and solids by using hydrodynamic separation (such as vortex and/or Stormceptor), and then uses an underground infiltration basin in compliance with the City's LID requirements. For this project, Stormceptor and Stormtrap systems were recommended to implement low-flow diversion for stormwater quality purposes.

Atkins is currently designing the expansion project and pre-construction conditions are illustrated.

### Client

Los Angeles World Airports

### Completion year

2011-ongoing

### Project cost

\$103 million

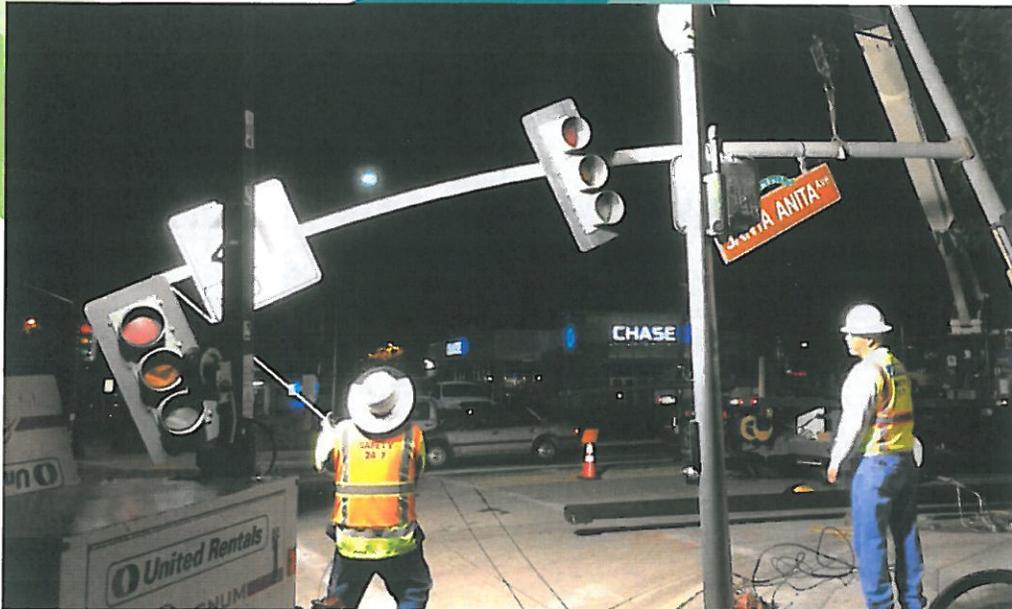
### Services provided

- Project management
- Infiltration basin
- Airfield civil design
- Grading and drainage
- Storm drainage collection design
- Hydrology and hydraulics
- Construction sequencing/ phasing
- Demolition plans
- Utility relocation
- Water quality

# Proposition C Traffic Signal Enhancement Project

## El Monte, California

# ATKINS



Atkins provided construction management, inspection, and document control services to the City of El Monte for the locally funded Proposition C Traffic Signal Enhancement project. The project involved replacement of existing traffic signal systems at four intersections and modifications of a fifth intersection.

To lessen traffic impacts and enhance public and worker safety, the project involved nighttime construction. The Atkins resident engineer worked closely with the City of El Monte, the contractor, and the supplier to obtain bills of material and additional plan details to facilitate preparation of all parties and maintain the project on schedule.

Work included removal and installation of traffic signal poles, cabinets, and associated equipment such as signal heads and hardware, LED signal indications, LED pedestrian indications, conduit, pull boxes, and cable. The City furnished the new signal poles and cabinets. The scope was enhanced to include provisions for providing ADA access around the expanded footprint of the new poles and controller cabinets, and repair and replacement of underground conduit. In addition, an overhead powerline was configured by others to provide for safe removal and reinstallation of a signal pole.



Services also included general inspection, quality oversight, schedule management, labor compliance, progress payment review and approval, change order review, coordination and review of submittals, and review of contractor compliance with the Continuity of Work Agreement (Project Labor Agreement).

This project was completed with zero reportable safety incidents and within the allotted fiscal budget.

**Client**  
City of El Monte

**Completion date**  
2014

**Project cost**  
\$90,000 (fee)

**Services provided**

- Construction management
- Inspection
- Document control
- Traffic control
- Contract administration

# As-Needed Land Use Planning and Engineering Services

## Orange County, California



Atkins provides as-needed development review services for Orange County Public Works, Planned Communities Section. The Atkins team provides staff augmentation services at the County public counter to accept and process the permit applications submitted for development projects and issue the necessary permits for construction of the projects. Atkins' on-site staff also enters the project information into the County's system and prepares the required status reports. Plan review services are provided off-site by Atkins staff.

Atkins' first task order, which is ongoing, involves development of the 790-acre Tonner Hills project in northern Orange County. Plan check services include zoning compliance, building and safety review, public property permits, drainage and water quality management plan compliance, landscape and irrigation, rough and precise grading plans, retaining walls, decorative walls and fences, non-residential structures, site accessibility, electrical, plumbing, and underground utilities.

The second task order includes similar augmentation services at the County public counter as well as plan review



services for the Rancho Mission Viejo development in south Orange County. The development consists of 14,000 residential dwelling units, 3.48 million square feet of non-residential uses, 1.22 million square feet of business park, and open space over the remaining 22,815 acres of the historic Rancho Mission Viejo.

To support this as-needed contract, Atkins is working with subconsultant partners to perform review of geotechnical reports and plans for structural, architectural, mechanical, plumbing, electrical, energy, and green building and accessibility compliance. Through the on-call contract, Atkins provides expedited reviews for the development for fast-tracked construction.

### Client

Orange County Public Works

### Completion date

On-going

### Services provided

- Staff augmentation
- Development review services
- Street improvement plans
- Traffic improvement plans
- Storm drain improvement plans
- Water Quality Management Plan review
- Water Quality Improvement Plan

# South Bay Regional Intermodal Transit Center

## Redondo Beach, California



Atkins is providing A-E design services for Phase I of a three-phase development of the South Bay Regional Intermodal Transit Center. The project replaced the existing, inadequate transit center to improve overall public bus transportation service and mobility in southwestern Los Angeles County.

Phase I for the 5.6-acre site included a pedestrian-friendly concourse, "kiss-and-ride," lot for commuter drop-off and pick-up, 13 bus bays, and "park-and-ride" lot with 328 parking spaces as well as a newly constructed, 2,875-square-foot bus transit facility, designed to meet LEED Silver certification standards. This facility incorporates a sheriff's office strategically located to provide an overview of the bus bays and grounds for greater security. Construction costs for Phase I development are approximately \$3 million.

Phases II and III, not part of this initial contract, will address transit operations, bus maintenance facility, administration center, three-level parking structure, and fleet maintenance facility.

A significant component of this project is the facility's elongated concourse that incorporates the bus bays and 36,810 square feet of landscaping. Inviting elements specified by the Atkins design team include conveniently located coffee kiosks in the plaza, geometric landscape planters, colorful

paving patterns, sculptural trellises in waiting areas, and covered bike racks and lockers. Permanent public artwork, provided by the Regional Arts Commission, is also being incorporated into the overall plaza design.

The Atkins team integrated numerous sustainable and green elements such as recycled and regional materials, low-flow fixtures, waterless urinals, bio-swales for filtering water runoff, drought-resistant landscaping, and environmental and recycling education features. To further reduce heat gain, the design team limited windows on the south-facing side.

The drainage from the site required extending the public underground storm drain system to the site. The bioswales provided the preliminary treatment of the storm water run-off prior to connecting to an on-site 2,700 cubic foot ADS retention/detention system to control the flow entering the public storm drain.

The project also includes off-site improvements to support the new transit facility, and contract documents include a new traffic signal on Kingsdale Avenue to access the center. The existing facility will be removed and Kingsdale Avenue will be widened to accommodate additional traffic, which will also require modifications to the traffic signal at the intersection of Kingsdale Avenue and Artesia Boulevard.



### Client

City of Redondo Beach

### Completion date

2015

### Project cost

\$14.2 million

### Project size

2,875 square feet

### Services provided

- Bioswale design
- Architecture
- Civil engineering
- Construction administration
- Cost estimating
- Landscape architecture
- Storm drain improvement
- Traffic signal design
- Sustainable design (LEED) and administration



# Pacific Coast Highway Congestion Relief Project

## Dana Point, California



Serving as a beautiful gateway to the seaside resort city of Dana Point, the Pacific Coast Highway Congestion Relief and Pedestrian Bridge project fulfills the City's aesthetic goals as well as operational and safety objectives. The bridge is adjacent to the heavily used intersection of Pacific Coast Highway (PCH) and Dana Point Harbor Drive, and it is the centerpiece of a congestion relief project undertaken by the City. A clear span over PCH is achieved using variable-depth, precast concrete girders that frame into cast-in-place concrete stairs and elevator towers. Extensive use of architectural finishes, lighting, and public art give the bridge a distinctive look, both day and night.

Atkins provided construction inspection and management services to the City of Dana Point for the reconstruction of PCH. This \$6 million capital improvement project consisted of widening and repaving PCH, development of the portion of the pedestrian access way within the PCH right-of-way, and construction of a new public view fence along the Doheny State Beach Park (Doheny SBP)

property line on PCH. This project was funded by congestion reduction grant funding to reduce congestion for vehicular traffic accessing Dana Point Harbor and Doheny SBP.

The intersection at PCH and Dana Point Harbor Drive is extremely congested, particularly during the summer season. The number of lanes was increased from 2 lanes in each direction to 3 lanes in each direction on PCH between Crystal Lantern and the San Juan Creek Bridge within the existing right-of-way. This required only a 2-foot-wide street width increase on the south side of PCH, with elimination of the existing center median.

The project included construction of a new pedestrian access way into Doheny SBP extending from PCH immediately east of Del Obispo Street/Dana Point Harbor Drive. These improvements, which included construction of a new public view fence and a concrete sidewalk, extended through the fence at the pedestrian access way to allow new, convenient access to and from Doheny SBP from PCH. A pedestrian bridge access-way was also constructed over PCH adjacent to the PCH/Del Obispo Street intersection. This pedestrian bridge crossing PCH at the entrance to the City of Dana Point allows direct pedestrian access to the adjacent Doheny SBP, while at the same time helping to improve traffic flow by removing vehicle/pedestrian conflicts. This project was completed on time and within budget.



### Client

City of Dana Point

### Completion date

2009

### Project cost

\$6 million

### Services provided

- Construction management
- Inspection

### Awards

Project Achievement Award, Infrastructure Project with Constructed Value Less \$15 Million, CMAA

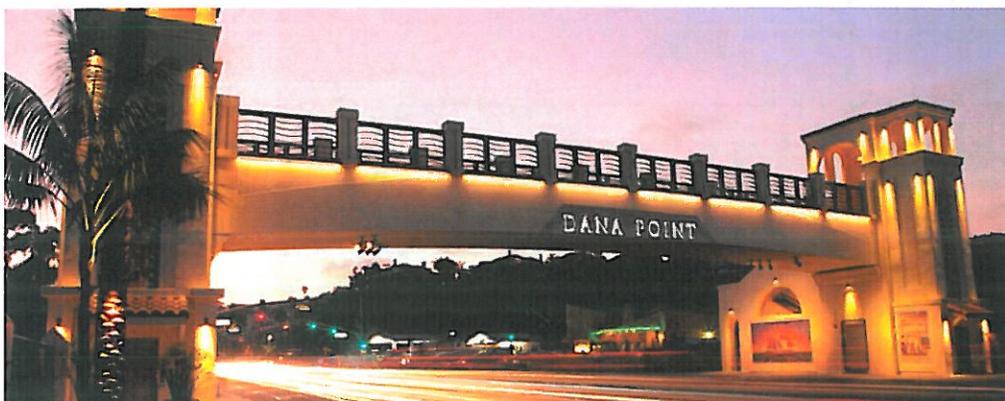
Best of 2009 Projects, Award of Merit, California Construction Magazine

Project Achievement Award, ASCE (Orange County Branch)

Engineering Project Achievement Award, Orange County Engineering Council

Award of Excellence Merit Award, ACEC California

Award of Excellence, ACEC California (Orange County Chapter)



# Newport Road Widening and Intersection Improvements

## Menifee, California

Atkins prepared the PS&E for the widening of Newport Road between Antelope Road and Menifee Road for the City of Menifee. This segment of Newport Road had two lanes of traffic in each direction with an 18-foot raised landscaped median, except for the west bound section between Westlink Drive and Antelope Road, which was striped for three lanes of traffic. The last 300 feet of the eastbound approach to the Menifee Road intersection was also striped for three lanes. The project was the first task order under Atkins' on-call plan check and civil engineering contract.

Design involved road widening to a six-lane arterial between Antelope Road and Menifee Road through reduction of the existing 18-foot median to a 12-foot median and restriping to provide a 12-foot lane adjacent to the median, an 11-foot middle through lane, and a 14-foot outside lane for both eastbound and westbound traffic.

The project also included widening at the intersection of Antelope Road and Newport Road to accommodate dual left turn lanes from westbound Newport Road to southbound Antelope Road. Traffic signal modifications were required at Newport Road intersection with Antelope Road, Menifee Lakes Drive, and Menifee Road.



A new signal was designed for Newport Road and Via Corazon. The project also included preparation of traffic control plans and signing and striping plans.

The existing pavement section was reconstructed. The existing asphalt concrete was cold milled and used for the asphalt base course through a cold central plant recycling process. The existing aggregate base was mixed with a pre-determined depth of the existing subgrade material and Portland cement to create a cement treated base material. The final surface course consisted of an asphalt rubber hot mix pavement.



**Client**  
City of Menifee

**Completion date**  
2014

**Project cost**  
\$2.68 million

**Services provided**

- Project management
- Design
- PS&E preparation
- Stormwater quality
- Traffic signal modifications
- ADA compliance
- Drainage improvements
- Construction support services
- Pavement rehabilitation
- Intersection modification
- Storm drain modification



# Melinda Road Resurfacing from SR 241 to Altisima

## Rancho Santa Margarita, California

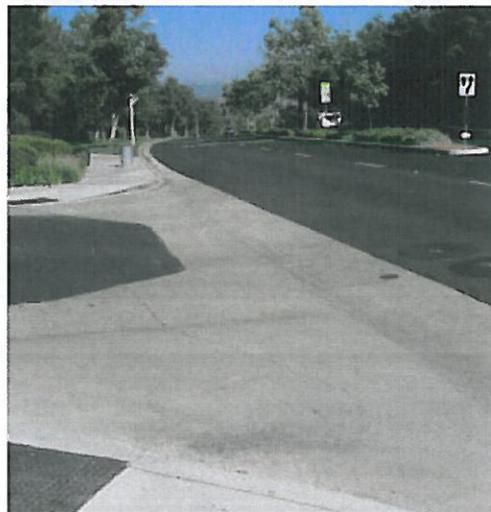
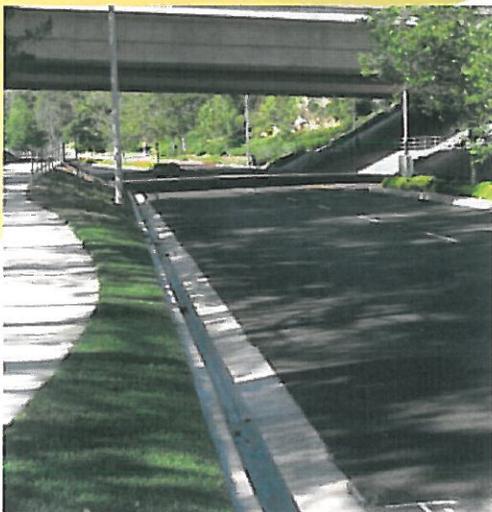
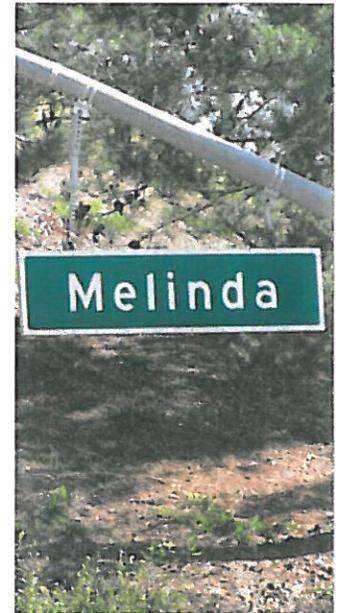


Atkins prepared final plans, specifications, and estimates (PS&E) for the resurfacing improvements of Melinda Road from the SR 241 overpass to Altisima for the City of Rancho Santa Margarita.

The resurfacing project involved edge grinding along the existing PCC gutters and asphalt concrete overlay. To maintain a 6-inch minimum curb face and adequate cross slope for drainage, additional cold milling was required along the raised landscaped median. Within the area of the SR 241 overpass, the cold milling was full street width to maintain the existing clearance between the overpass and proposed surface, as required by Caltrans.

Design included additional improvements for the reconstruction of damaged sidewalks, curbs, and gutters; construction of access ramps compliant with the Americans with Disabilities Act (ADA); and construction of new cross gutters. Some existing parkway improvements used colored stamped concrete. In these areas, the ADA-compliant access ramps and sidewalks were reconstructed using colored concrete to match the existing improvements.

The final PS&E included traffic control plans and signing and striping plans that required replacement of the existing traffic signal detection loops.



### Client

City of Rancho Santa Margarita

### Completion date

2011

### Project cost

\$644,000

### Services provided

- PS&E preparation
- Pavement rehabilitation design
- Traffic control plans
- Signing and striping plans
- Encroachment permit processing with Caltrans
- ADA compliance
- Variable depth cold milling

# Fire Station 44 Tank and Water Quality Improvements

## San Diego, California



Atkins provided full engineering and project management services to the City of San Diego Wastewater Division in support of solving an order issue related to one of its trunk mains in Miramar Road. The Wastewater Division engaged Atkins to design a hydrogen peroxide bleed station with storage tank on the existing fire station parcel located on the northeast corner of Black Mountain Road and Maya Linda Road in San Diego. The station will bleed hydrogen peroxide into an existing sanitary sewer forcemain located in Black Mountain Road. Goals for the design of the facility were to eliminate odors in the sewer system downstream, have no negative effects to emergency operations at the fire station, improve stormwater quality of the fire station parcel, and garner support from the community. The design included site planning, grading, water, storm, and sewer utility connections; emergency eye wash station; tertiary containment, structural design for a 10-foot concrete masonry unit (CMU) block screen wall, and landscaping. In addition, Atkins permitted the project through the City of San Diego Development Services Department on behalf of the Wastewater Division.

Built five years prior, the fire station had been a highly anticipated project with a number of considerations including architecture,

color schemes, and landscape. In order to garner community support for the storage tank facility, Atkins made a presentation to the Community Planning Group that included visualizations showing a typical hydrogen peroxide station compared to Atkins' proposed design which blended with the existing fire station. The Community Planning Group unanimously approved our design.

A key design component of the facility was to develop an on-site water quality treatment system that decreased the amount of stormwater runoff while increasing the quality of runoff. The water quality treatment system included vegetated buffer strips and rock bioswale with steps to increase retention time and conform to the grade of the site.



**Client**  
City of San Diego

**Completion date**  
2015

**Project cost**  
\$108,830 (design)

**Services provided**

- Stormwater analysis
- Water quality treatment system design
- Utility and site design
- Grading design
- Structural design
- Permit processing
- Visual simulations
- Project management
- Preparation of PS&E
- Community outreach



**Atkins low impact design enhanced neighborhood appearance and improved stormwater quality**



**Rendering of typical installation**

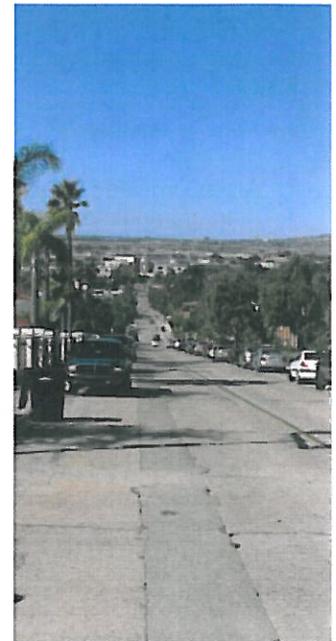


**Rendering of Atkins approved design**



# Juan Street Rehabilitation from Taylor Street to Sunset Road

## San Diego, California



Atkins prepared the PS&E to rehabilitate Juan Street from Taylor Street to Sunset Road for the City of San Diego. In addition to providing access to the commercial properties near Taylor Street and Old Town, Juan Street is the main connection to freeways for residential areas within and east of the project limits. Providing access to residents and the business community is essential to the project's success.

The existing roadway is a Portland cement concrete section with an inverted crown in the easterly section to convey drainage to the existing underground storm drain system in the westerly section. The existing pavement is in poor condition and requires total reconstruction of approximately 3,550 feet. Due to the substantial change in elevation, both longitudinally and from one side of the street to the other, the drainage issues are a significant consideration during the design process. Atkins prepared a hydrology and hydraulic report to determine existing runoff volumes and proposed street capacities. Based on this report, Atkins determined that the existing storm drain system would require additional improvements to provide adequate protection of the adjacent properties. Atkins designed a new underground storm drain mainline, laterals, and inlets.

Atkins also designed improvements to the existing curb and gutter, sidewalks, curb access ramps, and drive approaches to comply with ADA requirements. The proposed parkway improvements will impact the existing on-site improvements and will require additional design to provide a smooth transition between the private and



public improvements. Due to the varied types of walls, landscaping, and decorative driveways, significant efforts will be required to satisfy the property owners as well as meet the City's budgetary constraints. Atkins conducted community workshops with the Old Town Community Planning Committee.

The project also included replacement of an existing 8-inch potable water mainline with a new 12-inch potable water mainline. New water services will be provided along with maintaining service to the existing, historic fire hydrants in the Old Town areas. Atkins completed analysis to determine if additional fire hydrants would be required within the project limits to provide the required fire flow.

### Client

City of San Diego

### Completion date

2014 (design)

### Project cost

\$647,137 (design)

### Services provided

- Project management
- Site inspection
- Hydrology and hydraulics
- Design
- Preparation of plans, specifications, and estimates
- Stormwater quality
- ADA design compliance
- Community workshops
- Signing and striping
- Traffic control
- Pavement rehabilitation
- Storm drain design
- Water main design

# Mira Mesa Library Watershed Protection

## San Diego, California



The Mira Mesa Library is located on Camino Ruiz just north of Mira Mesa Boulevard in the heart of the Mira Mesa community within the City of San Diego. The site is comprised of an existing City library, associated asphalt parking lot, and landscaped areas. The City of San Diego wishes to install a pilot storm water Best Management Practice (BMP) within the parking lot to determine if there are storm water treatment capabilities within a site that has soil with very low permeability rates.

The City of San Diego contracted with Atkins to provide design services for a BMP solution to treat the storm water generated from an 85th percentile storm event. The project involves the design of three BMP areas, modifications to existing curb ramps for ADA compliance, hydrology study, Storm Water Management Plan, project specifications, and coordination with the City's project manager.

Atkins developed four concept solutions to treat storm water including retention with irrigation support, driveable grass parking lot, altering drainage to existing landscape area, and biofiltration. The selected biofiltration concept was developed to 100% design which includes use of permeable paving at parking lot, silva cells to allow root growth for adjacent landscaping, and underground perforated pipe to drain excess storm water.

#### Benefits of biofiltration:

- Lower construction costs
- Utilized low head of parking lot
- Address grease and oil pollutants of concern.

The project is awaiting construction funding which is anticipated in FY 15-16.

#### Client

City of San Diego

#### Completion date

2016 (est)

#### Project cost

\$109,436 (design)

#### Services provided

- Conceptual design
- Water quality design alternative
- Biofiltration
- Hydrology
- Site planning
- Community meetings

# Agua Mansa Road and Market Street Intersection Improvements

## Riverside County, California

Atkins provided engineering services for pavement rehabilitation and intersection improvements at Agua Mansa Road and Market Street under an on-call design contract with the Riverside County Transportation Department (RCTD). Atkins prepared plans, specifications, and estimate (PS&E) for the pavement rehabilitation of Market Street from Rubidoux Boulevard to 500 feet east of Agua Mansa Road.

Design also included upgrades to the existing intersection at Agua Mansa Road and Market Street with new traffic signal, signing, striping, and construction of new curb returns with ramps compliant with the Americans with Disabilities Act (ADA) to accommodate greater turning movements and traffic demand. In addition, Atkins designed storm drain laterals and catch basins to complete a storm drain improvement project recently constructed by the Riverside County Flood Control and Water Conservation District. RCTD staff—in close coordination with the Atkins team—prepared the traffic signal, signing, striping, and traffic control plans.

Due to project funding and to accommodate RCTD's additional CIP improvements, Atkins modified the original project design that included the widening of Market Street from Rubidoux Boulevard to 1,000 feet east of Aqua Mansa Road, and widening

of Rubidoux Boulevard from 1,000 feet north of Market Street to 1,000 feet south of Market Street. Atkins also prepared right-of-way documents for the required acquisition services and designed new curb and gutter, medians, pavement grades, and curb returns in the ultimate locations for the original proposed project. Atkins seamlessly integrated the design modifications to develop the final construction documents to meet RCTD's needs.

Atkins prepared the final construction documents and is currently providing bid support services. Construction commencement is anticipated in the Fall of 2014 and construction support services will be provided.



### Client

Riverside County Transportation Department

### Completion date

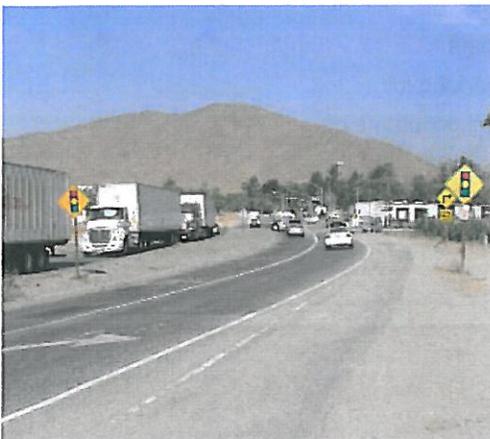
2011–ongoing

### Project cost

\$248,000 (design)

### Services provided

- Project management
- Design
- Preparation of plans, specifications, and estimate
- Right-of-way engineering
- ADA compliance
- Pavement rehabilitation
- Intersection improvements
- Storm drain improvements



Pre-construction conditions shown

# Beta Street Alley Construction Documents

## San Diego, California

# ATKINS



The Beta Street Green Alley project involves improving the existing unpaved alley north of Beta Street, between 38th Street and 39th Street, and 39th Street between the alley and Beta Street in San Diego. The Green Alley project is a pilot project for the application of porous concrete and infiltration trenches for storm water management in a low-use street setting. The objective is to test the durability and functional capabilities for treating storm water runoff in a vehicular travel setting. The porous concrete will be in select areas within the alley rather than throughout the entire alley. Design of the alley will direct storm water runoff to the porous concrete areas by surface sheet flow, and the filtered water will be conveyed to the existing storm drain system for ultimately discharge to the Chollas Creek. Water that is discharged into the creek must be able to meet the storm water discharge requirements based on the City's SUSMP and additional criteria

determined by the City's Storm Water Department. The infiltration trenches, located at each end of the alley improvements, will collect the storm water from their tributary areas and percolate into the subgrade material. In addition to construction plans and specifications, approval requires preparation of a Drainage Report, Water Pollution Control Plan, and Water Quality Technical Report.

The project also requires access ramp improvements in compliance with ADA requirements, sidewalk improvement along Beta Street to complete pedestrian access to the adjacent school property, asphalt overlay of the adjacent section of Beta Street, and re-grading of the excess right-of-way within 39th Street to direct the storm water flow to the nearest porous concrete section and infiltration trench.

### Client

City of San Diego

### Completion date

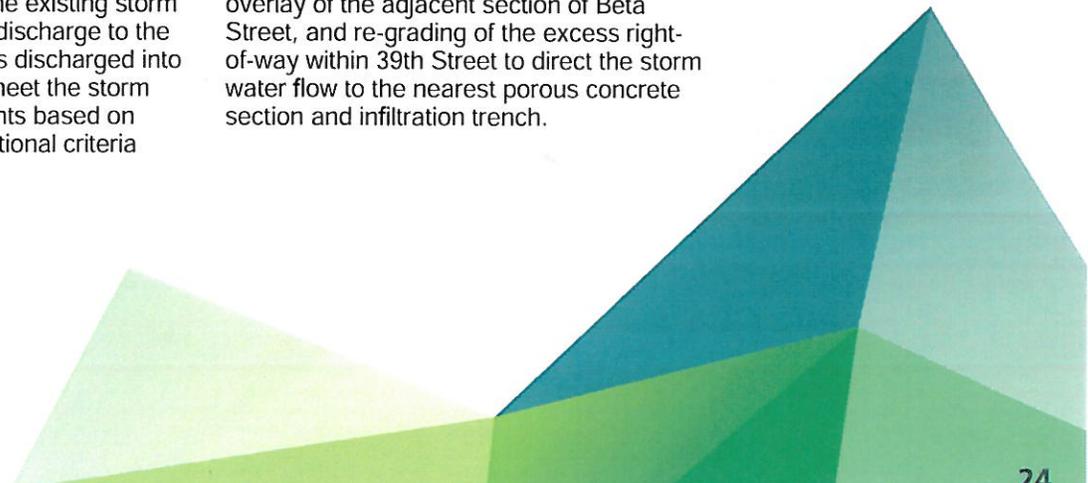
June 2015 (est)

### Project cost

\$70,000 (design)

### Services provided

- PS&E preparation
- Porous concrete pavement design
- Infiltration trenches
- Pavement resurfacing
- ADA compliance
- Permitting through City of San Diego Development Services Department



# Old Elsinore Road, Clark Street, and Rider Street Intersection Improvements

Perris, California



Atkins provided engineering and construction support services for the intersection widening and improvements at Old Elsinore Road, Clark Street, and Rider Street for the Riverside County Transportation Department. The project involved design and preparation of construction documents to widen the roadway along Old Elsinore Road to include left turn pockets and ultimate curb returns to allow for safer and more efficient traffic and pedestrian movements for the nearby school.

The project included design of pedestrian access ramps at the intersection in compliance with ADA. A slurry seal was applied to the remaining existing pavement within the limits of the project to provide a fresh overall appearance to the intersection and to provide preventative maintenance to the existing pavement. RCTD staff—in close coordination with the Atkins design team—prepared the traffic signal, signing, striping, and traffic control plans.



**Client**  
Riverside County  
Transportation Department

**Completion date**  
2011

**Project cost**  
\$450,000

**Services provided**

- Project management
- Design
- Preparation of PS&E
- ADA compliance
- Slurry seal
- Ultimate curb return design
- Street widening



# 17th Street Roadway and Parkway Improvements

## Costa Mesa, California

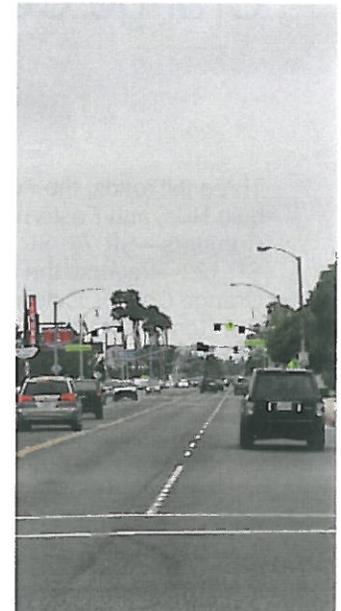


Atkins prepared plans, specifications, and estimates (PS&E) for the reconstruction of 17th Street from Santa Ana Avenue to Irvine Avenue for the City of Costa Mesa. The project involved total reconstruction of the roadway due to failure of the existing structural section. Damage to the existing curb and gutter caused by parkway trees required reconstruction in many areas to obtain positive drainage. As a result of the adjustments to the gutter flowline, reconstruction of a number of drive approaches was required.

The reconstruction was designed in accordance with the City standards and the Americans with Disabilities Act (ADA) guidelines and regulations. Additional improvements included reconstruction of damaged PCC sidewalk, construction of ADA compliant curb access ramps, and construction of PCC bus pads. The project design involved installation of a

controlled pedestrian cross walk to provide access to a major commercial development, signing and striping plans, replacement of the traffic signal detection loops, and construction phasing/traffic control plans as part of the construction plan set.

Because the project was located within a primarily commercial area, the roadway reconstruction was phased to maintain access to the adjacent businesses at all times. The pedestrian traffic along the project limits was addressed in the project plans and specifications to ensure safe paths of travel were provided. Since the project was partially funded with federal funds, federal contract provisions were included in the project specifications. Atkins also prepared and processed the application through Caltrans District 12 for authorization to advertise the construction project for bids.



**Client**  
City of Costa Mesa

**Completion date**  
2007

**Project cost**  
\$2.9 million

- Services provided**
- PS&E preparation
  - Federal funding application
  - ADA compliance
  - Traffic control plan
  - Signing and striping
  - Pavement rehabilitation
  - Surface drainage improvements



Pre-construction condition



Post-construction condition



Pre-construction condition



Post-construction condition

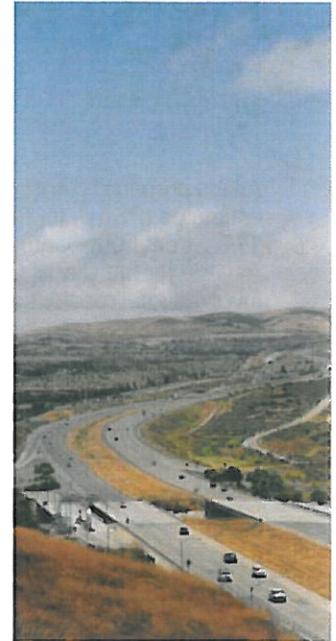
# San Joaquin Hills, Eastern and Foothill Transportation Corridors

## Orange County, California

Three toll roads, the Foothill, San Joaquin Hills, and Eastern Transportation Corridors—SR 73, SR 241, SR 261, and SR 133—traverse the hills and canyons in Orange County, California. The Transportation Corridor Agencies (TCA), a legislatively created joint powers authority, is charged with constructing these roadways.

In 1988, TCA retained the services of Corridor Design Management Group (CDMG), a joint-venture partnership of three engineering firms, to serve as program manager for the TCA toll roads project. Atkins is a key player of CDMG, providing program and design management services on these three toll roads. Since its inception, TCA has planned, designed, and constructed 51 miles of toll roads valued at over \$3 billion. In 1995, a 7.5-mile segment of the Foothill toll road was opened to traffic. In 1996, a design-build contract was completed for the 16-mile, \$790 million San Joaquin Hills toll road; and in 1998, the \$750 million, 24-mile Eastern Transportation Corridor (including a 3.5-mile extension of the Foothill Transportation Corridor) opened to traffic. A number of challenges were present during the planning, design, and construction of these toll roads, which included 51 miles of roadway, 101 structures, 12 buildings, 5 main toll plazas, and 28 ramp toll plazas.

During the program management contract, services included conceptual and preliminary alignment and design studies, value engineering studies, development of toll facility and toll design criteria, preparation of environmental-support documents including a Runoff Management Plan, design management and reviews, right-of-way acquisition services, utility relocation coordination services, contract administration services, project controls services, claims management services, and construction management services for portions of the Foothill toll road. The successful program management services of Atkins and its partners in implementing the ambitious toll road program were exemplified by the Eastern Transportation Corridor, completed 14 months ahead of schedule.



Since 2006, Atkins has served on the CDMG team responsible for design management to support TCA's capital improvement program including the Tesoro Extension and the Foothill-South Transportation Corridor.

As part of the design management team, Atkins developed, reviewed, and designed drainage and stormwater quality for the Tesoro Extension, a 5-mile stretch of the SR 241 Foothill-South corridor. The stormwater quality design included an extensive study for water quality flow development and design of low-flow diversion structures. A total of 15 flow splitters were designed to divert water quality flows to the Austin sand filters for stormwater treatment while allowing peak flows to continue on the original design. The recommended flow splitters were similar to Caltrans Type 4 flow splitters with restricter plates.

### Client

Transportation Corridor Agencies (TCA)

### Completion year

1988–2006 (Program management)

2006–ongoing (Design management and oversight)

### Services provided

- Design management and reviews
- Claims management services
- Conceptual and preliminary alignment and design studies
- Construction management
- Contract administration
- Development of toll facility and toll design criteria
- Preparation of environmental support documents
- Project controls services
- Right-of-way acquisition services
- Utility relocation coordination services
- Value engineering studies
- Design engineering for capital improvement projects

# Standish Drive Corrugated Metal Pipe Arch (CMPA) Replacement Poway, California



Atkins prepared the PS&E to replace the failing and undersized storm drain facilities located in Standish Drive and Garden Road for the City of Poway. A majority of the aging metal pipe was close to failure, and if left unrepaired would result in sinkholes on private property and public safety concerns. Most of the failing infrastructure was located outside of the paved roadway and immediately adjacent to residential improvements, resulting in major impacts to homeowners to remove and replace the existing facility. In addition, the existing pipe was shallow and had major/minor utilities above and below, and the existing capacity was one-quarter of the 100-year peak design discharge. The project addressed capacity issues, flood control, existing utility coordination, groundwater issues, water quality, hydrology and hydraulics modeling, health and safety of adjacent residents, and time constraints for construction. At the request of the client, additional scope was provided for construction support in response to RFIs, attendance at construction meetings, leading a neighborhood presentation, and preparation of as-built drawings.

Design included approximately 1,400 linear feet of 36-inch by 57-inch CMPA,

1,080 linear feet of 7-foot-wide by 3-foot-high reinforced concrete box, 60 linear feet of Portland cement concrete transition channel, 50 linear feet of 18-inch RCP, 250 linear feet of 24-inch RCP, storm drain cleanout, four pressure manholes, curb inlet catch basins, and abandonment of existing CMPA 24-inch CMP. Water improvements included replacement and relocation of 6- and 10-inch asbestos cement pipe and replacement of water service laterals. Sewer improvements included installation of approximately 350 linear feet of 8-inch SDR-35 PVC pipe; sewer manholes and cleanouts; and replacement of sewer service laterals.

Minimal impacts to the existing residences were imperative. A technical memorandum was prepared that summarized alternatives and the most cost-effective design with the least disturbance. Due to impacts caused by the replacement project, Atkins designed residential driveways, landscaping, irrigation, curb and gutter, sidewalk, cross gutter, traffic striping, and a pedestrian ramp. Utility coordination with SDG&E, AT&T, Cox, and Time Warner Cable was vital to avoid conflicts during construction and complete any facility relocations before construction of the proposed storm drain.

## Client

City of Poway

## Completion date

2010

## Project cost

\$136,000 (design)

## Services provided

- Project management
- Hydrology and hydraulics
- Design
- Preparation of PS&E
- Utility coordination
- Community outreach
- Bid and construction support

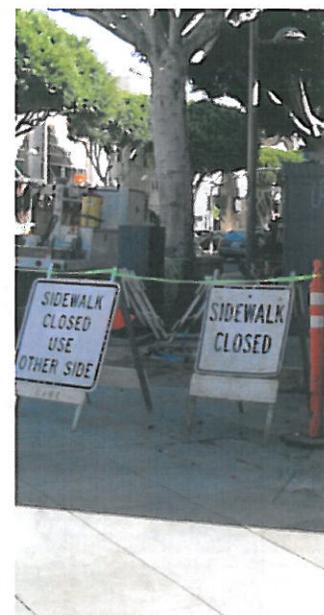
## Awards

Project of the Year Award, APWA San Diego Chapter and Imperial County Chapter, 2010

# 2nd and 4th Street Pedestrian and Streetscape Improvements Santa Monica, California

Atkins provided construction management services for the City of Santa Monica for pedestrian and streetscape improvements on 2nd Street and 4th Street in the downtown area. The project involved close interaction with pedestrians and business owners. Improvements for the area included sidewalk repairs; installation of new curb extensions at mid-block crossings; and new street, sidewalk, and tree lighting.

This project also included removing diseased trees, from what is often referred to as the City's "community forest," and replacing them with new trees that are better suited to the urban environment. The \$7 million project was completed on time and within budget.



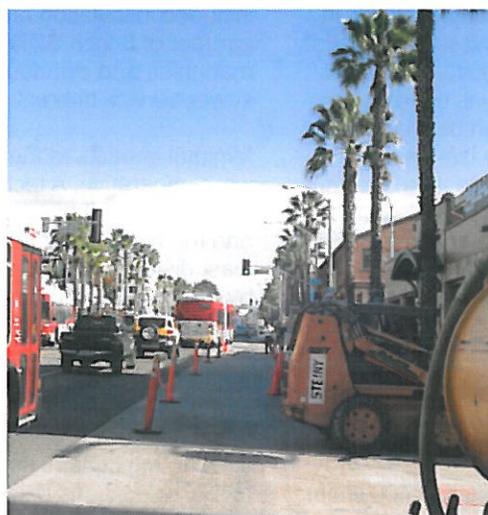
**Client**  
City of Santa Monica

**Completion date**  
2008

**Project cost**  
\$7 million

**Services provided**

- Construction management
- Inspection
- Coordination with local businesses and general public



# Newland Avenue and Yockey Street Storm Drain Improvements

## Garden Grove, California



### Client

City of Garden Grove

### Completion date

2007

### Project cost

\$1.5 million

### Services provided

- Design
- Structural engineering
- PS&E preparation
- Hydrology and hydraulics

Atkins prepared the plans, specifications, and estimates (PS&E) for the storm drain confluence to the Orange County Flood Control District facilities for the City of Garden Grove. The project involved extensive evaluation of structural capacity and structural and hydraulic calculations for the storm drain junction at Newland Avenue and Yockey Street to Westminster Channel.

The junction structure design consisted of a 12-foot-wide by 5-foot-high reinforced concrete box to the Westminster Channel, which is owned and maintained by the Orange County Flood Control District. Due to the existing capacity limitations in Westminster Channel, the project involved flow restriction design for the interim conditions to restrict flows to the receiving channel.

# F Street Reopening Design

## Las Vegas, Nevada



The City of Las Vegas reinstated the crucial connection of F Street under I-15 in response to the community's objections for its closure. The project reestablished the eliminated travel patterns while addressing and improving the local community needs by connecting the downtown Las Vegas area with the historic west side.

Atkins completed preliminary and final design and supported environmental studies for the street reopening, which was used to support the preparation of a Federal Highway Administration (FHWA)-requested reevaluation of the I-15 improvements from the US 95 to Apex Environmental Assessment (EA) as well as for the preparation of a new NEPA document for the F Street reopening.

Atkins developed design concepts for consideration by the Nevada Department of Transportation (NDOT), FHWA, City of Las Vegas, and community. We developed these concepts based on engineering data gathered early in the project including neighborhood input, existing roadway geometry, drainage flows, traffic data, and cost. Atkins led public workshops to gain the trust of the public and develop a concept that would gain the support of stakeholders.

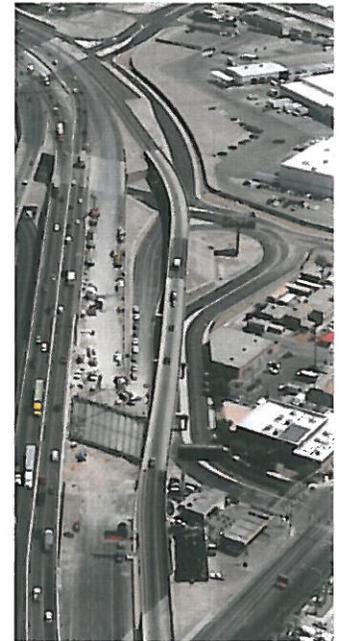
Atkins developed and prepared information and provided preliminary design-level plans required to complete several documents. We provided NEPA process support to NDOT that included traffic information; drainage studies; plan design and preparation; and preliminary construction plans, quantities, and cost estimates. Our team assisted



NDOT with modifying the existing EA to obtain environmental clearances.

Atkins' final design included three cast-in-place, post-tensioned box girder bridges, seven retaining walls, new roadway improvements on F Street from Bonanza Avenue to Washington Avenue, storm drains, signing, striping, two traffic signals, Freeway and Arterial System of Transportation (FAST) infrastructure modifications, a 16-inch water line relocation, construction traffic control on I-15, accent lighting, and 12 murals depicting historical places, events, and famous community leaders. Our team coordinated the project with the local utilities to ensure that any facilities in conflict with the new roadway improvements were relocated prior to construction. This included facilities owned by NV Energy, Southwest Gas, Cox Communications, and Centurylink.

We also worked with NDOT and the City of Las Vegas to develop a unique signal for the FD Connector and F Street intersection. There were sight visibility issues due to the structural bents along the FD connector, as well as the clearance from the F Street underpass.



### Client

City of Las Vegas

### Completion date

2012 (design)  
2014 (construction)

### Project cost

\$16 million

### Services provided

- Project management
- Preliminary engineering
- Final design
- Environmental studies
- Traffic engineering
- Drainage design
- Structural engineering
- Landscape architecture/aesthetics
- Public outreach



## 4. Hourly Rate Schedule



**ATKINS INFRASTRUCTURE  
STANDARD RATE SCHEDULE, EFFECTIVE JANUARY 1, 2015**

**Atkins North America, Inc.**  
625 The City Drive South, Suite 200  
Orange, California 92868  
**Telephone: +1.714.750.7275**  
**Fax: +1.714.750.2501**  
[www.atkinsglobal.com/northamerica](http://www.atkinsglobal.com/northamerica)

### ENGINEERING SERVICES

Principal Engineer V.....	\$265.00
Principal Engineer IV.....	240.00
Principal Engineer III.....	220.00
Principal Engineer II.....	200.00
Principal Engineer I.....	190.00
Supervising Engineer II.....	180.00
Supervising Engineer I.....	165.00
Senior Engineer III.....	155.00
Senior Engineer II.....	145.00
Senior Engineer I.....	135.00
Engineer III.....	125.00
Engineer II.....	115.00
Engineer I.....	105.00
Engineering Aide.....	70.00

### CONSTRUCTION RELATED SERVICES

Senior Construction Manager.....	\$175.00
Senior Project Engineer (Const.).....	155.00
Construction Manager.....	140.00
Senior Field Representative*.....	115.00
Construction Management Rep. II*.....	100.00
Construction Management Rep. I*.....	90.00
Prevailing Wage Field Rep.**.....	125.00
Sr. Contract Administrator.....	100.00
Contract Administrator.....	85.00

### ENVIRONMENTAL SCIENCE SERVICES

Supervising Scientist.....	\$225.00
Senior Scientist III.....	205.00
Senior Scientist II.....	170.00
Senior Scientist I.....	160.00
Scientist III.....	140.00
Scientist II.....	120.00
Scientist I.....	110.00
Assistant Scientist.....	87.00
Research Assistant.....	65.00

### PUBLIC AFFAIRS/COMMUNITY RELATIONS

Project Manager.....	\$170.00
Community Relations Specialist.....	140.00
Assistant Project Manager.....	125.00
Account Coordinator.....	80.00

### EXPENSES AND OUTSIDE SERVICES

Identifiable non-salary costs that are directly attributable to the project, such as reproduction costs, telephone charges, mileage, postage, etc., are billed at actual cost plus 15 percent to cover overhead and administration costs plus 3 percent for insurance costs. Fees for subconsultant services provided are billed at actual cost plus 15 percent to cover overhead and administration costs plus 3 percent for insurance costs.

Fees for litigation and expert witness services will be charged at \$450.00 per hour with a 4-hour minimum per day.

Computer Aided Drafting, hydrologic water, sewer and stormwater modeling, GIS, automated mapping, database and web programming, etc., is charged at \$5 per labor hour.

### PAYMENT TERMS

A late payment finance charge at a rate of 18 percent per annum will be applied to any unpaid balance commencing 30 days after the date of original invoice.

This rate schedule is subject to annual and/or periodic revisions as necessary to accommodate inflationary trends, salary adjustments and the general costs of business.

### OTHER PROFESSIONAL SERVICES

Principal Professional.....	\$196.00
Supervising Professional.....	170.00
CASp/Access Specialist.....	150.00
Sr. Professional III / Sr. GIS Analyst III.....	150.00
Senior Professional II / Sr. GIS Analyst II.....	135.00
Senior Professional I / Sr. GIS Analyst I.....	122.00
Professional II / GIS Analyst II.....	101.00
Professional I / GIS Analyst I.....	88.00

### DESIGN & GRAPHIC SERVICES

Senior Designer IV.....	\$165.00
Senior Designer III.....	140.00
Senior Designer II.....	135.00
Senior Designer I.....	120.00
Designer II.....	110.00
Designer I.....	100.00
CAD Technician III.....	95.00
CAD Technician II.....	85.00
CAD Technician I.....	70.00
Graphics Designer II.....	100.00
Graphics Designer I.....	95.00

### LANDSCAPE ARCHITECTURE

Sr. Landscape Architect.....	\$180.00
Sr. Landscape Architect II.....	120.00
Landscape Architect I.....	100.00

### ADMINISTRATIVE SERVICES

Senior Administrator II.....	\$135.00
Senior Administrator I.....	105.00
Senior Administrative Assistant III.....	95.00
Senior Administrative Assistant II.....	85.00
Senior Administrative Assistant I.....	80.00
Administrative Assistant III.....	75.00
Administrative Assistant II.....	65.00
Administrative Assistant I / Clerk.....	60.00

\* Non-Prevailing Wage

\*\* Prevailing Wage Rate – Overtime will be charged at 1.25 times and Sundays and holidays will be charged at 1.70 times the above rates.

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