



HAMILTON
& Associates

1641 Border Avenue • Torrance, CA 90501 T 310.618.2190 888.618.2190 F 310.618.2191 W hamilton-associates.net

June 12, 2015

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

RECEIVED
City of Rancho Palos Verdes

JUN 15 2015

Attention: Mr. Ron Dragoo, Senior Civil Engineer

Subject: Statement of Qualifications

PUBLIC WORKS DEPARTMENT

Dear Mr. Dragoo:

At your request and that of the City of Rancho Palos Verdes, we have attached our Statement of Qualifications and hourly rates for review and placement of our firm on the City's approved 'On-Call' list.

Since its inception in 2004, Hamilton & Associates has successfully preformed geotechnical and geological engineering, and construction observation and testing services for a wide variety of projects including Public Infrastructure, Industrial Facilities, Land Development, Water and Wastewater, Retail, Commercial, Residential, and Port projects.

Hamilton & Associates practices in the City of Rancho Palos Verdes on a regular basis. Our staff engineers and technicians have between 10 to 25 years experience on specific projects within Rancho Palos Verdes, and our senior geotechnical engineer has more than 40 years experience in Rancho Palos Verdes.

Hamilton & Associates' largest Public Work's Client is Los Angeles County Sanitation Districts. Since 2006, we have successfully completed more than ten (10) Sanitation District projects including new and replacement sewers, pump stations, tanks, and other ancillary facilities. On all projects we performed exploratory borings, laboratory analysis, and Geotechnical Data Reports and/or Feasibility/Opinion Reports with recommendations such as shoring, tunneling, and pipe jacking. The projects were located in public right of ways within multiple cities and jurisdictions, including City of Los Angeles, County of Los Angeles, Torrance, and Caltrans.

Hamilton & Associates, Inc.

Geotechnical Engineering Construction Testing & Inspection Materials Laboratory

We sincerely appreciate this opportunity to be considered. If there are any questions or you need clarification, please contact us at 310-618-2190.

Respectfully submitted,

HAMILTON & ASSOCIATES, INC.



David T. Hamilton, MS, PE, GE
President / Principal Engineer

Attachments: January 2015 Fee Schedule
Statement of Qualifications
Resume – David T. Hamilton, MS. PE, GE

Distribution: (1) Mr. Ron Dragoo, Senior Civil Engineer
Email: RonD@rpv.com



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(310) 618-2190 (888) 618-2190 Fax (310) 618-2191

JANUARY 2015 FEE SCHEDULE

Geotechnical	Fee	Unit
Principal Geotechnical Engineer / Geologist	\$ 220.00	per hour
Senior Geotechnical Engineer / Geologist	\$ 180.00	per hour
Project Engineer / Geologist	\$ 165.00	per hour
Senior Staff Engineer / Geologist	\$ 135.00	per hour
Staff Engineer / Geologist	\$ 110.00	per hour
Forensic / Expert Witness (4-hr. min.)	\$ 350.00	per hour
Senior/Deputy Soils Technician (Non-Prevailing Wages)	\$ 95.00	per hour
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Soils Technician (Prevailing Wages)	\$ 110.00	per hour
Laboratory Technician	\$ 85.00	per hour
Drafting	\$ 85.00	per hour
Office Services / Clerical	\$ 80.00	per hour
Special Inspection (Reinforced Concrete, Post Tension, Masonry, Steel Welding/Bolting, Epoxy, Fire Proofing)		
Project Manager	\$ 125.00	per hour
Project Coordinator	\$ 95.00	per hour
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Expenses		
Field Vehicle	\$ 0.60	per mile
Per Diem	Local Government Rate	
Reimbursables (Maps / Photos / Permits / Expendable Supplies, etc.)	Cost + 15%	
Outside Equipment (Drill Rig / Backhoe / Monitoring Equipment, etc.)	Cost + 15%	
Laboratory Testing		
Atterberg Limits (ASTM D4318)	\$ 110.00	flat fee
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-Laboratory test rates do not include sampling time or cost of equipment to secure the samples.

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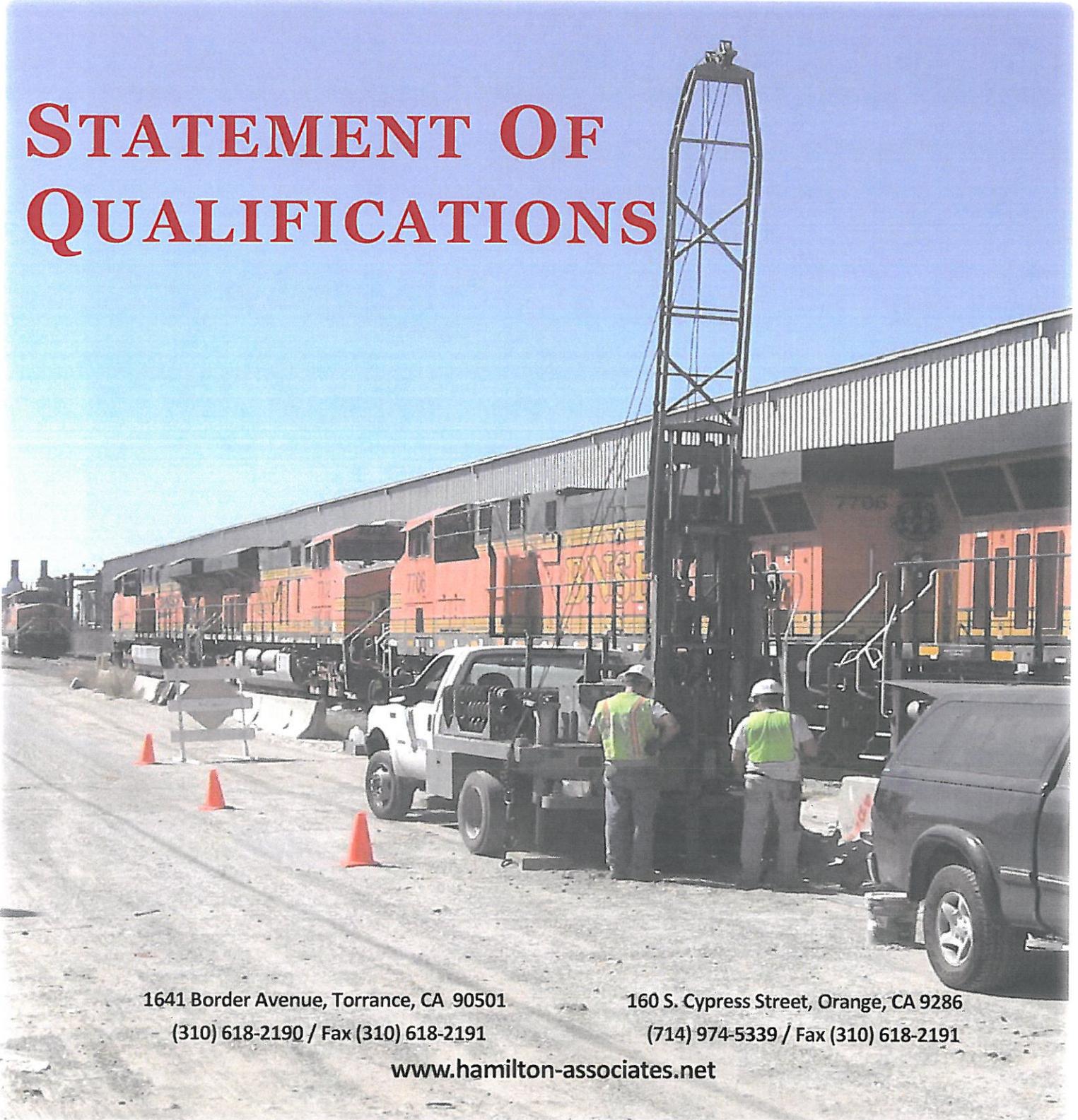
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**GEOTECHNICAL ENGINEERING,
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MATERIALS LABORATORY**

STATEMENT OF QUALIFICATIONS



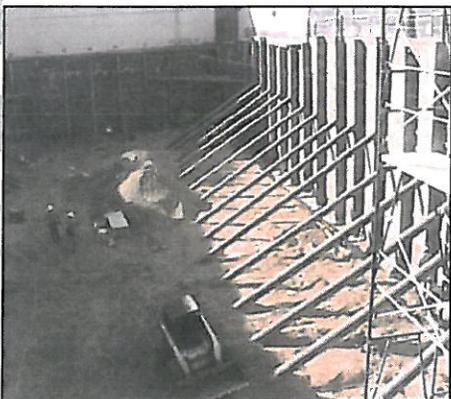
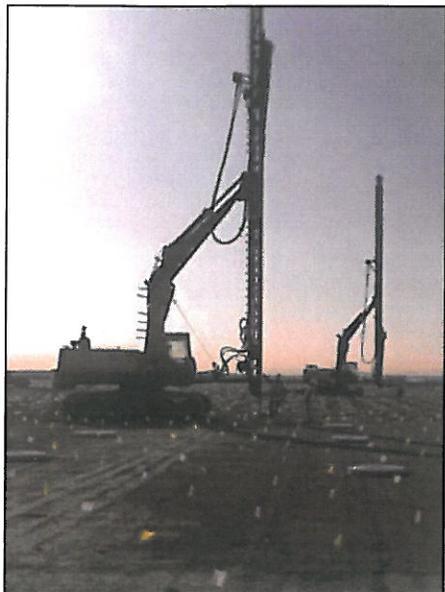
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Company Overview

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Hamilton & Associates provides comprehensive solutions to numerous municipalities, developers, general contractors, commercial, industrial and residential clients. Our personnel consists of geotechnical and civil engineers, geologists, laboratory and field technicians, deputy inspectors, and an experienced technical support staff.

Through the comprehensiveness of our geotechnical engineering and materials testing and inspection, we offer clients quick response and innovative solutions to help them gain competitive advantage through the efficiency and effectiveness of our services.

Contact

David T. Hamilton, MS, PE, GE
President / Principal Engineer

Hamilton & Associates, Inc.
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Residence with Basement



Landslide Repair

Hillside Monitoring

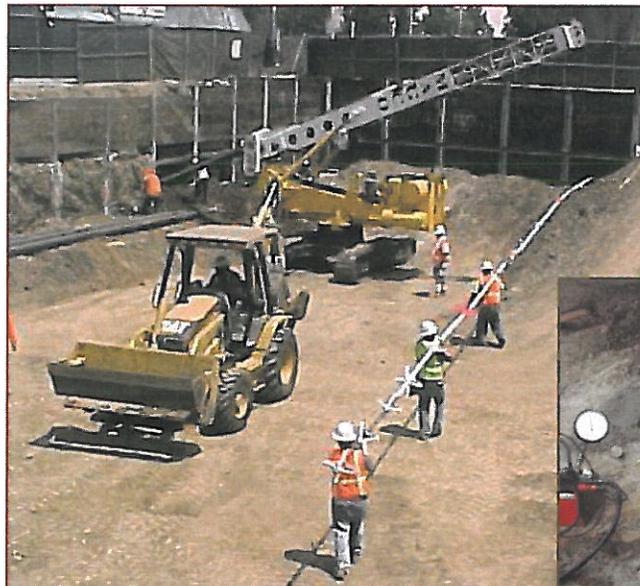


Methane Testing

Geotechnical Engineering Services

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- Soil and Foundation Studies
- Site Geologic Evaluation
- Slope Stability Analyses/Landslides
- Liquefaction Potential Evaluations
- Earthquake Engineering
- Seismicity/Fault Studies
- Forensic Distress Investigations
- Pavement Design
- Percolation Testing



Mixed-Use Development
With Shoring and
Tieback Anchors





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Pile Driving/Drilled Piers



Site Grading



Asphalt Street Restoration

Construction Observation and Testing Services

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Earthwork/Foundation Observation & Testing

- Soil Compaction Testing
- Foundation Observation
- Site Grading Observation & Testing
- Ground Improvement
- Pile Driving/Drilled Piers

Construction Materials Testing & Inspection

- Reinforced Concrete
- Pre-Stressed Concrete
- Reinforced Masonry
- Structural Steel
- Welding
- Fireproofing

Public Infrastructure Inspection

- Certified Public Infrastructure Inspectors (CPII)
- Observation, Measurement, Testing & Documentation to determine compliance with plans and specifications of public infrastructure and facilities construction projects



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**Consolidation & Direct
Shear Testing**



**Sieve Analysis &
Hydrometer Testing**



**Concrete Compression
Testing**

Laboratory Testing Services

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- Sand Equivalent Tests
- Sieve Analyses
- Hydrometer Analyses
- Specific Gravity Tests
- Unconfined Compression
- Permeability
- Concrete Compression Testing
- Maximum Density
- Optimum Moisture Determinations
- Consolidation Tests
- Direct Shear Tests
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- Swell Tests
- Sulfate Content, pH and Resistivity
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**AASHTO Materials
Reference Laboratory**



**City of L.A. Soils and
Concrete Certification**



**AASHTO
Accreditation**

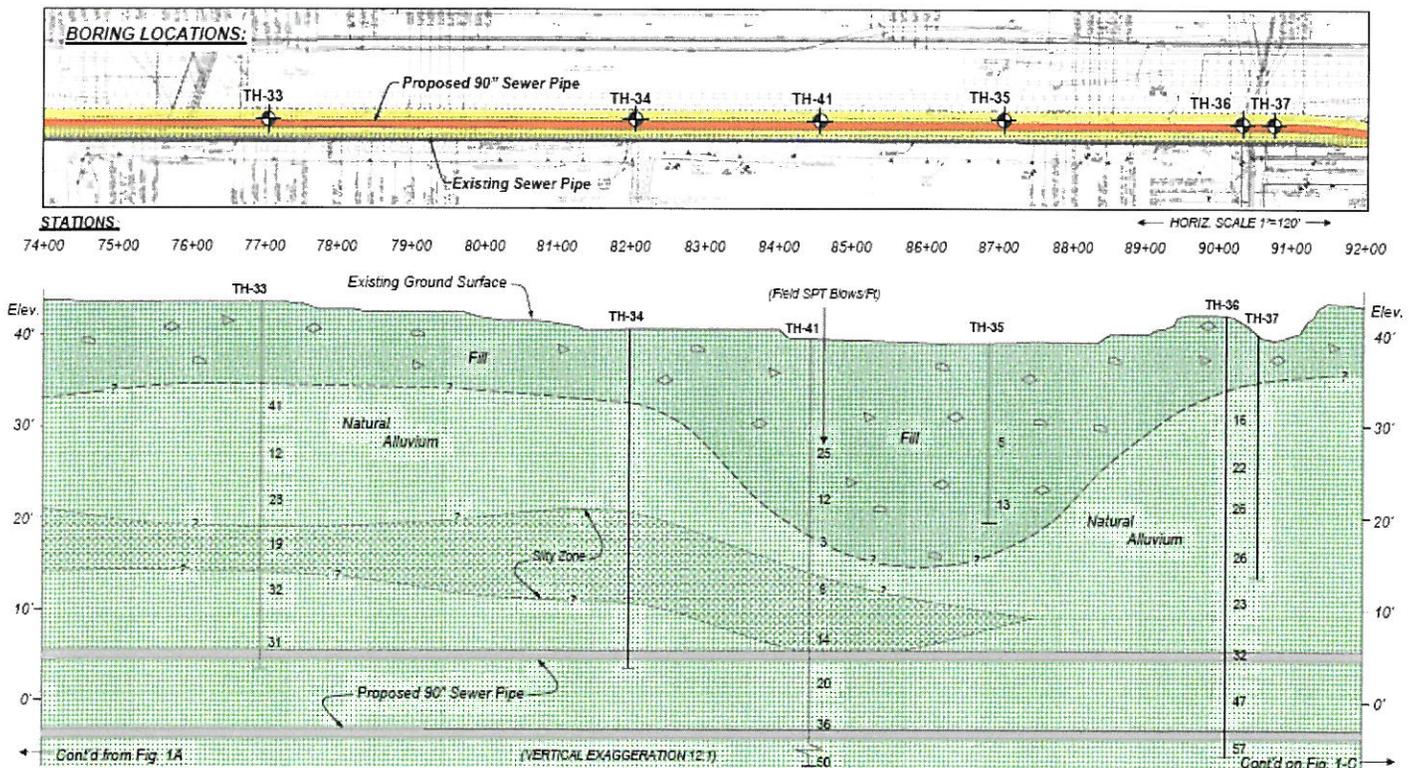


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Selected Project Briefs

Los Angeles County Joint Outfall "C" Relief Trunk Sewer City of Los Angeles (Wilmington Area), California

Hamilton and Associates performed engineering geologic evaluation as part of overall geotechnical investigation for construction of proposed subsurface 8-foot-diameter sewer pipe along alignment of Lomita Boulevard, extending beneath Alameda Boulevard and Tesoro Refinery. Included evaluation of site geologic and ground water conditions, and preparation of detailed soil profiles pertinent to proposed tunneling and/or jacking techniques for pipe construction; seismic history and setting relative to nearby fault systems, and geologic hazard evaluation. Geotechnical concerns at the site include groundwater elevation, soft soil deposits and hydrocarbon contamination, and numerous active petroleum product supply pipes along the proposed tunneling route.



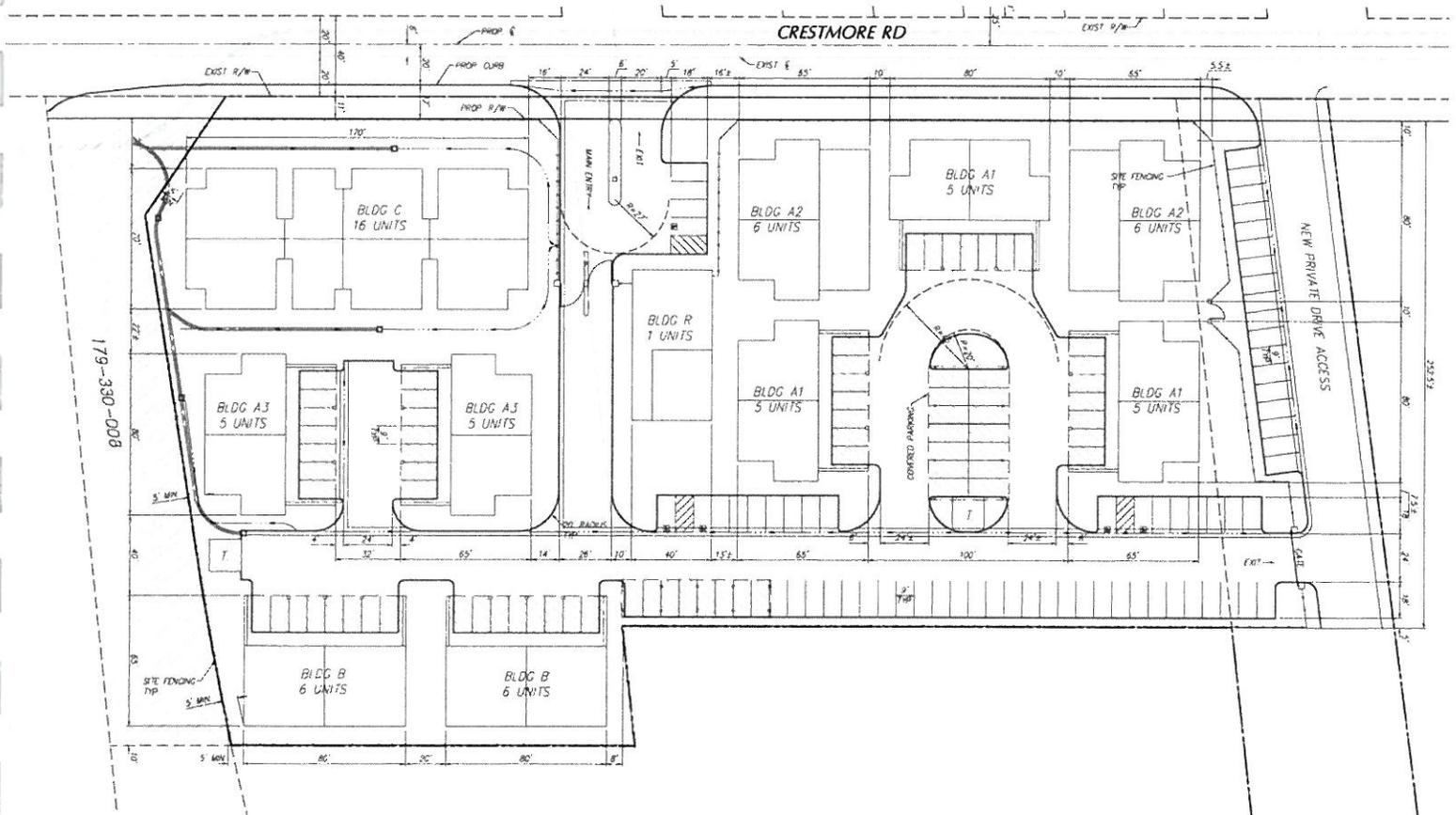


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Selected Project Briefs

Multi-Unit Residential Development, Riverside, California

Performed field exploration, including seven exploratory borings across a 4.3 acre site, as well as engineering evaluation, as part of a residential development. Project consisted of razing existing development and constructing 11 two-story buildings with approximately 66 units, a community center, as well as paved parking, concrete flatwork, landscaping and a community garden area.

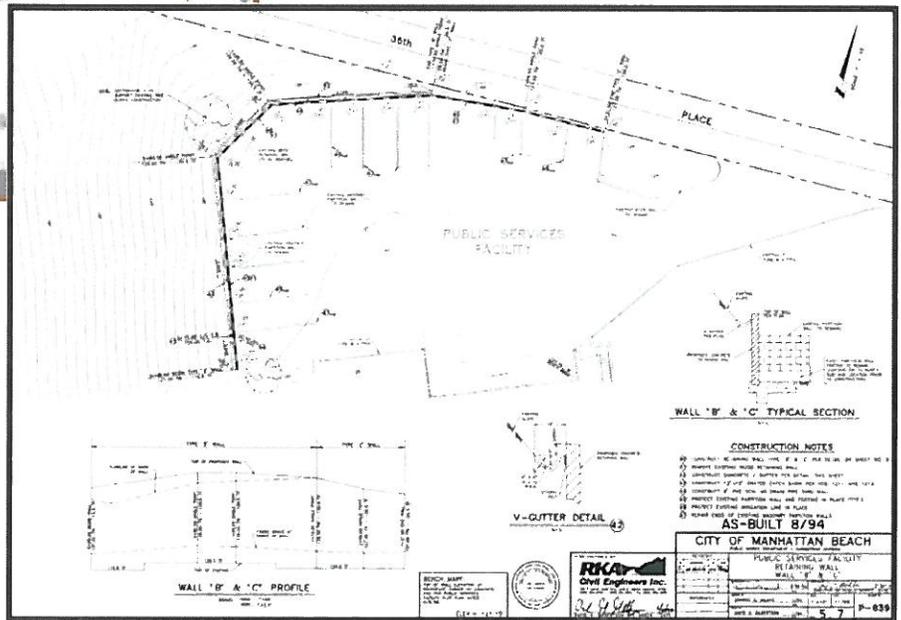
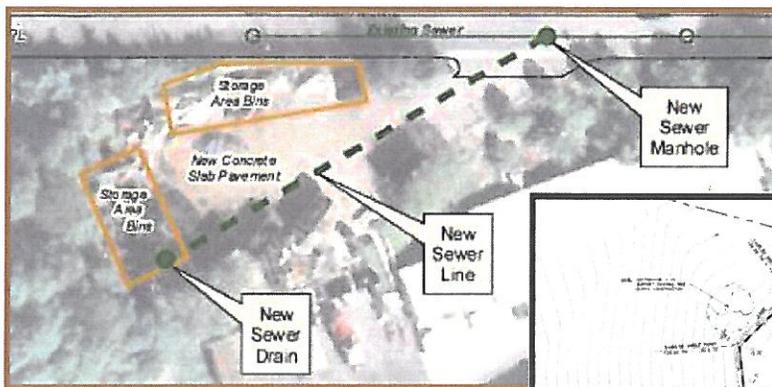




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Selected Project Briefs

Manhattan Beach Public Services Facility and Sewer Line Project City of Manhattan Beach, California



Performed subsurface investigation, laboratory analysis, and geotechnical engineering evaluation for a two (2) open-air Steel Structures at the north and west sides of the yard, PCC pavement, and a new sewer line. Our evaluation included field exploration, settlement analysis, and excavation.

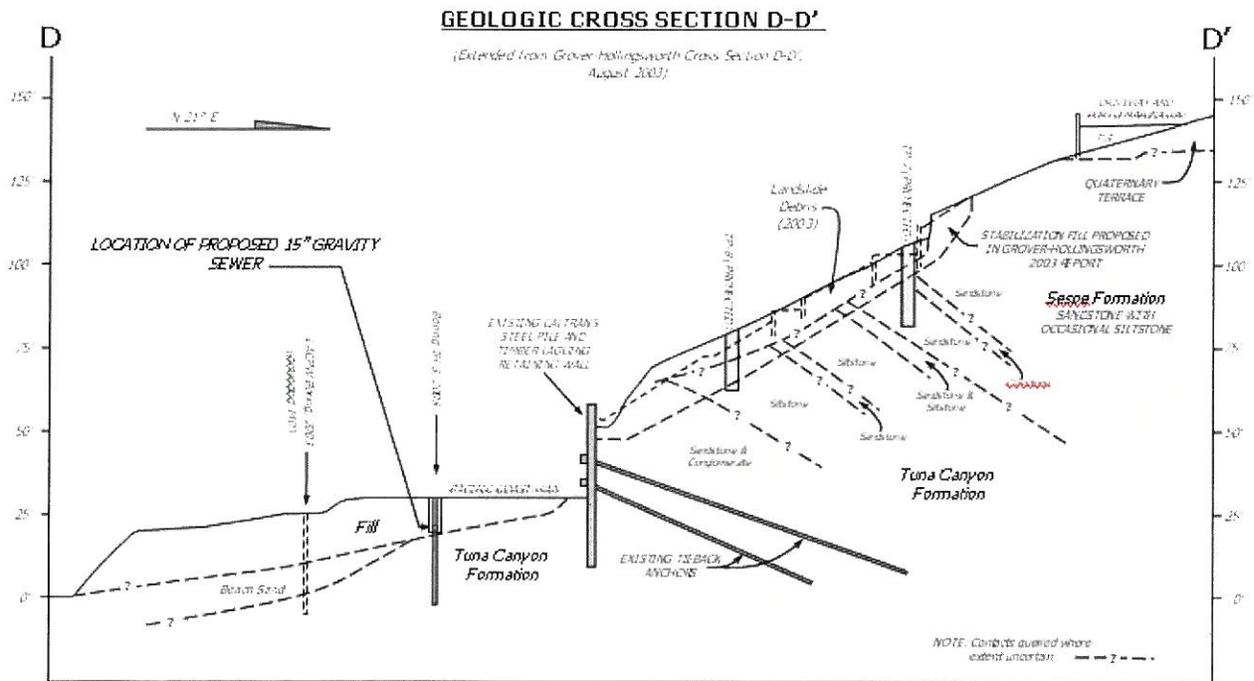


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Selected Project Briefs

Los Angeles County District 27 Gravity Sewer County of Los Angeles, California

Performed excavation and logging of three hollow stem and one bucket auger exploratory boring using a truck mounted drill rig. Groundwater level measurements and sampling were performed and spoils from each sample tested with an Organic Vapor Analyzer (OVA). A combustible gas monitor was also provided for use in test hole #2. Our evaluation included field exploration, laboratory testing and report preparation. Reports described the results of testing and discussed a review and evaluation of other geotechnical reports and design evaluations, prepared by others, in order to satisfy Caltrans permit requirements for the proposed jacking, tunneling, and open excavation work along Pacific Coast Highway.



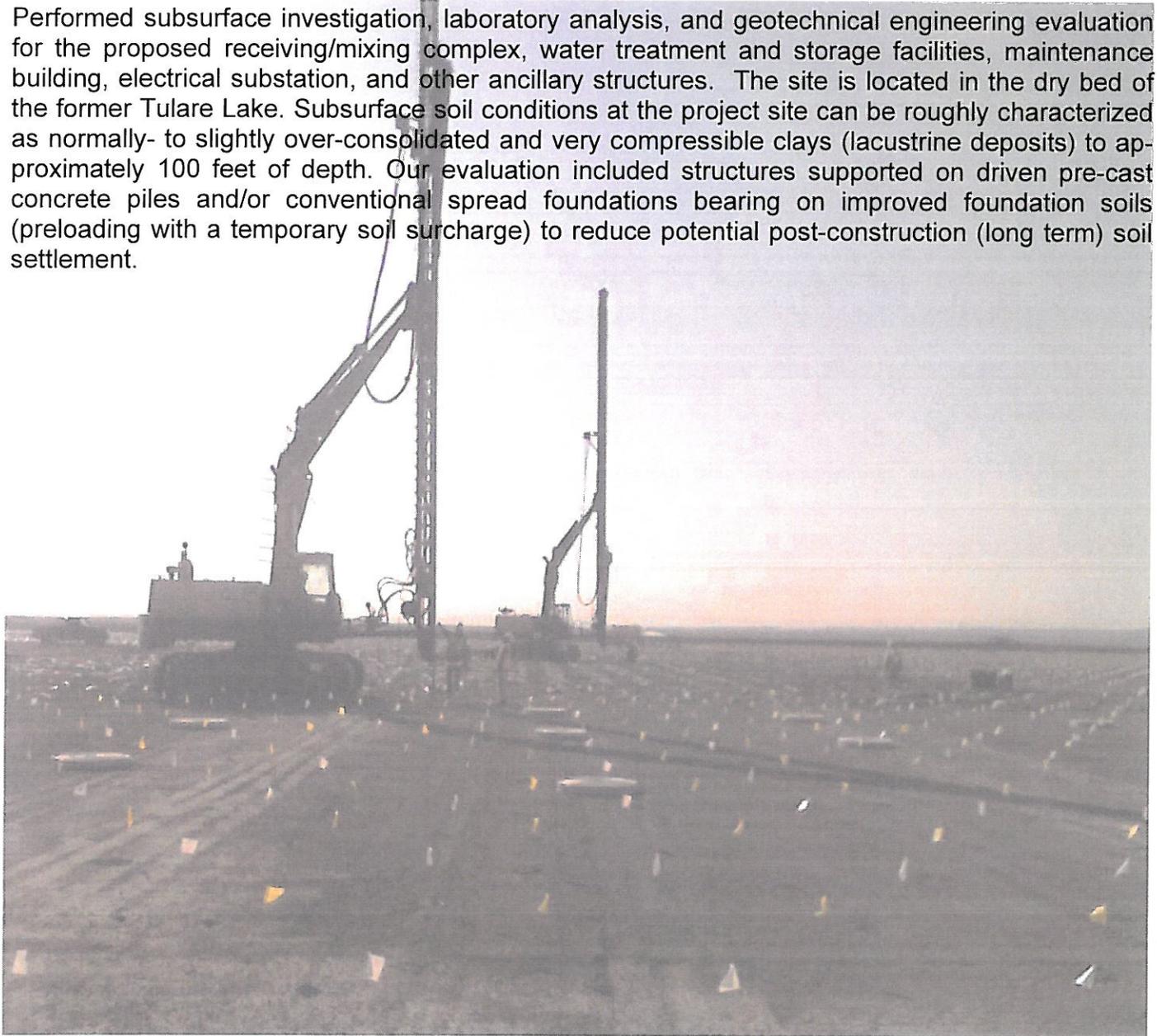


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Selected Project Briefs

Biosolids Composting Facility — Kings County, California

Performed subsurface investigation, laboratory analysis, and geotechnical engineering evaluation for the proposed receiving/mixing complex, water treatment and storage facilities, maintenance building, electrical substation, and other ancillary structures. The site is located in the dry bed of the former Tulare Lake. Subsurface soil conditions at the project site can be roughly characterized as normally- to slightly over-consolidated and very compressible clays (lacustrine deposits) to approximately 100 feet of depth. Our evaluation included structures supported on driven pre-cast concrete piles and/or conventional spread foundations bearing on improved foundation soils (preloading with a temporary soil surcharge) to reduce potential post-construction (long term) soil settlement.





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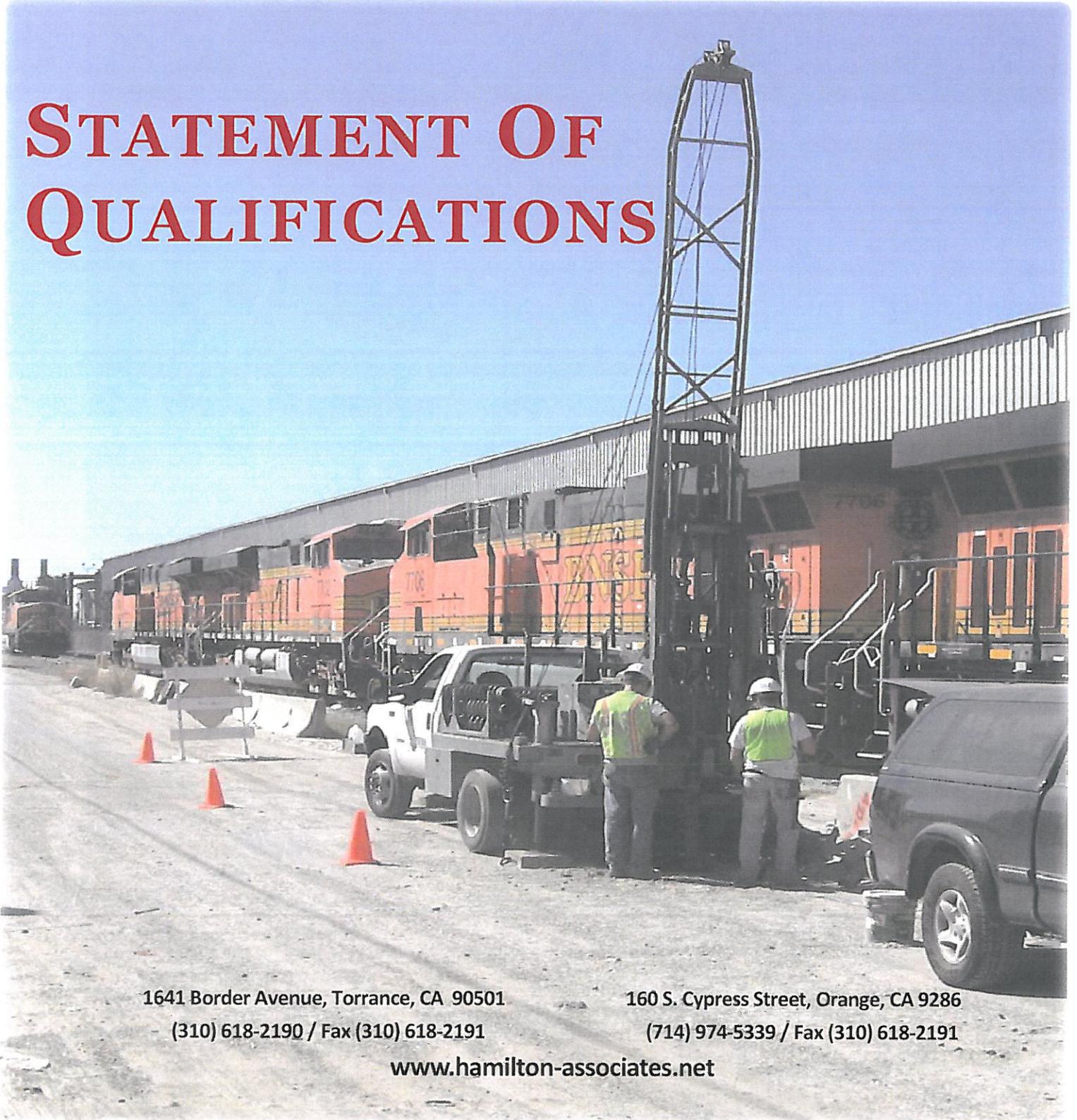
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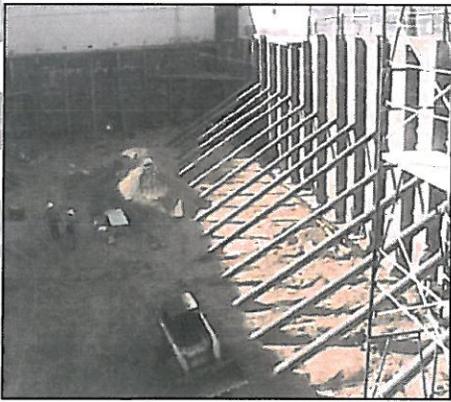
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With Shoring and
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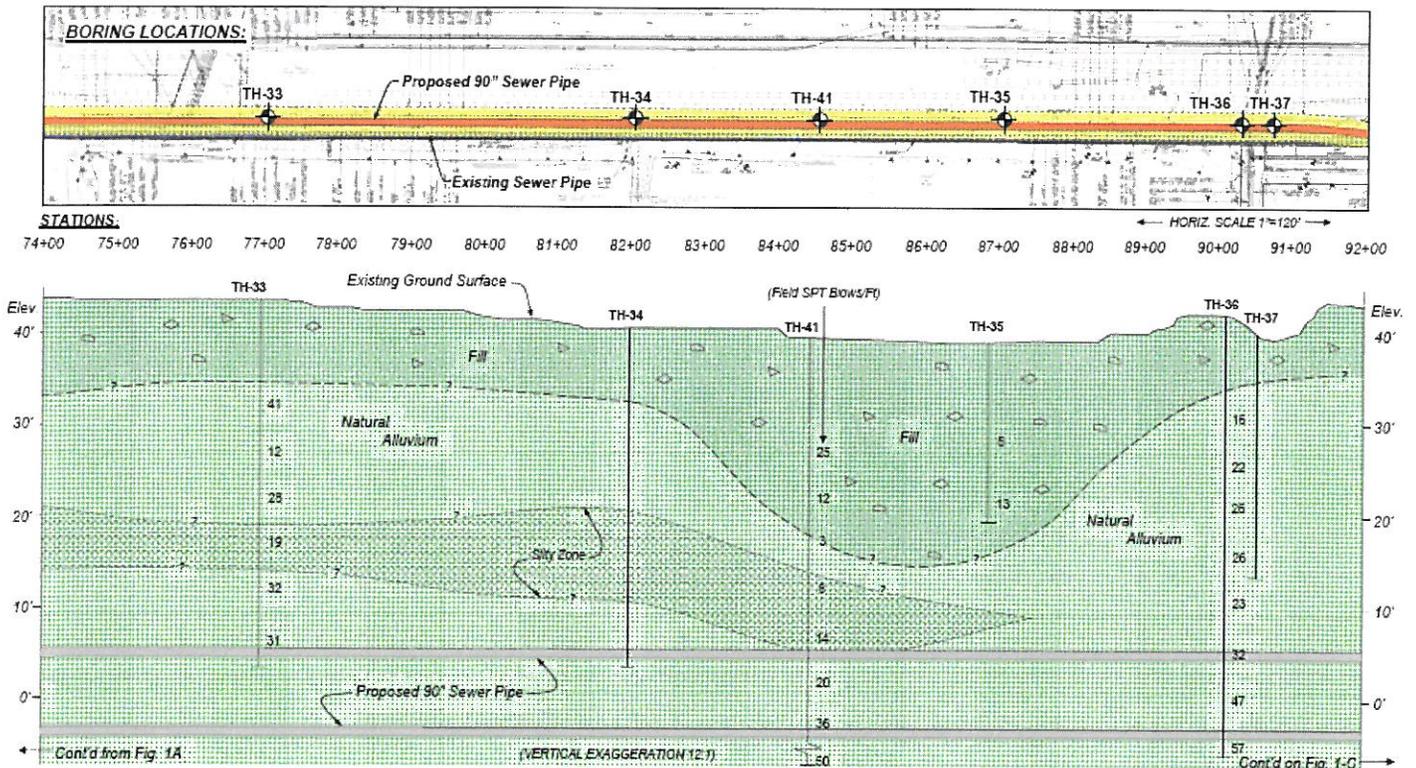


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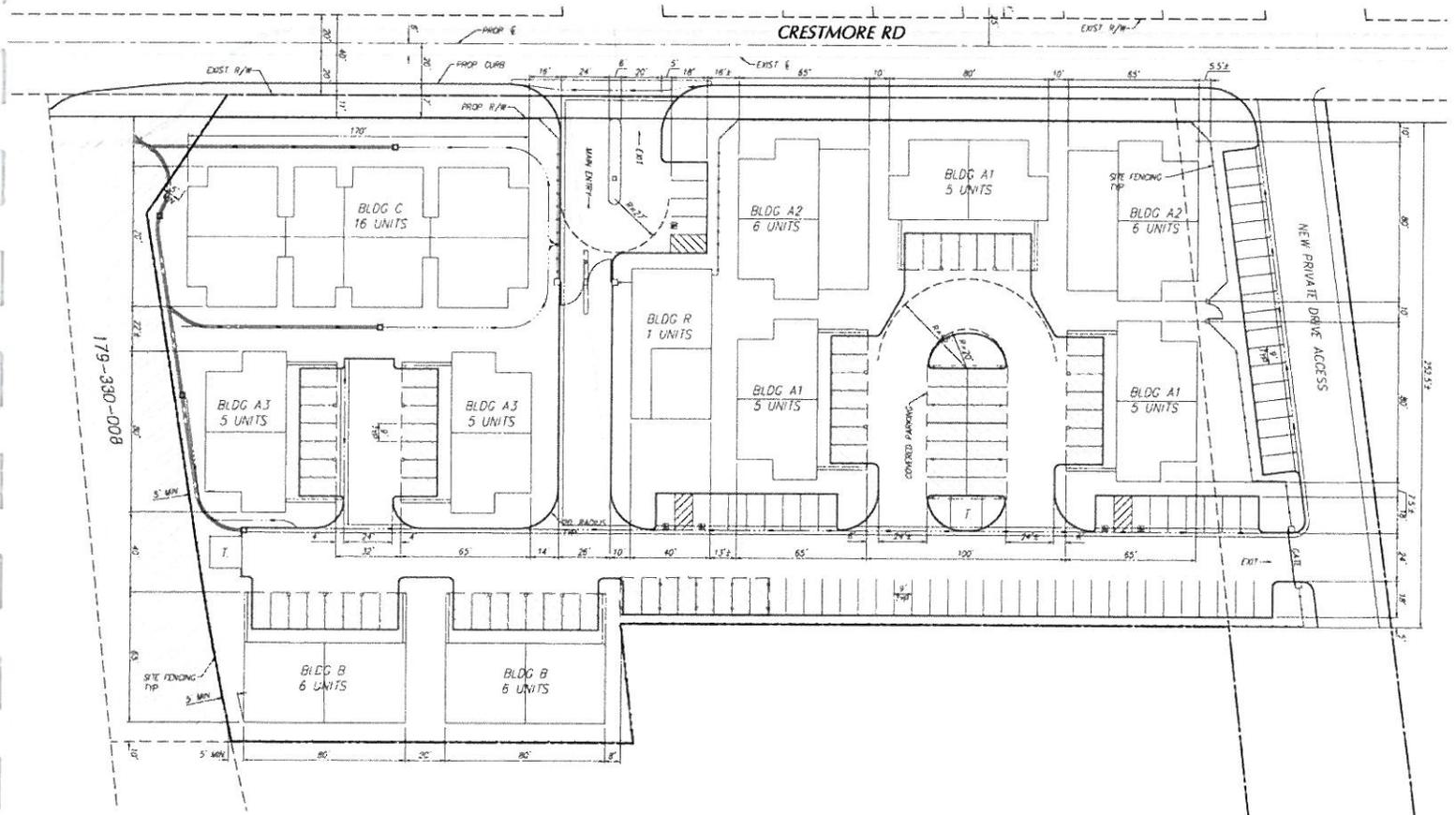


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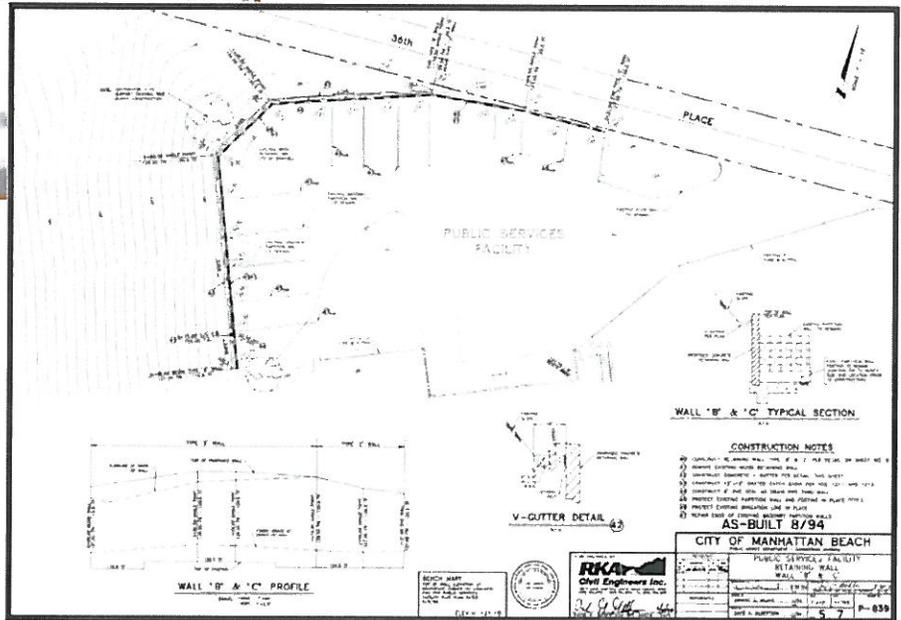




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Selected Project Briefs

Manhattan Beach Public Services Facility and Sewer Line Project City of Manhattan Beach, California



Performed subsurface investigation, laboratory analysis, and geotechnical engineering evaluation for a two (2) open-air Steel Structures at the north and west sides of the yard, PCC pavement, and a new sewer line. Our evaluation included field exploration, settlement analysis, and excavation.

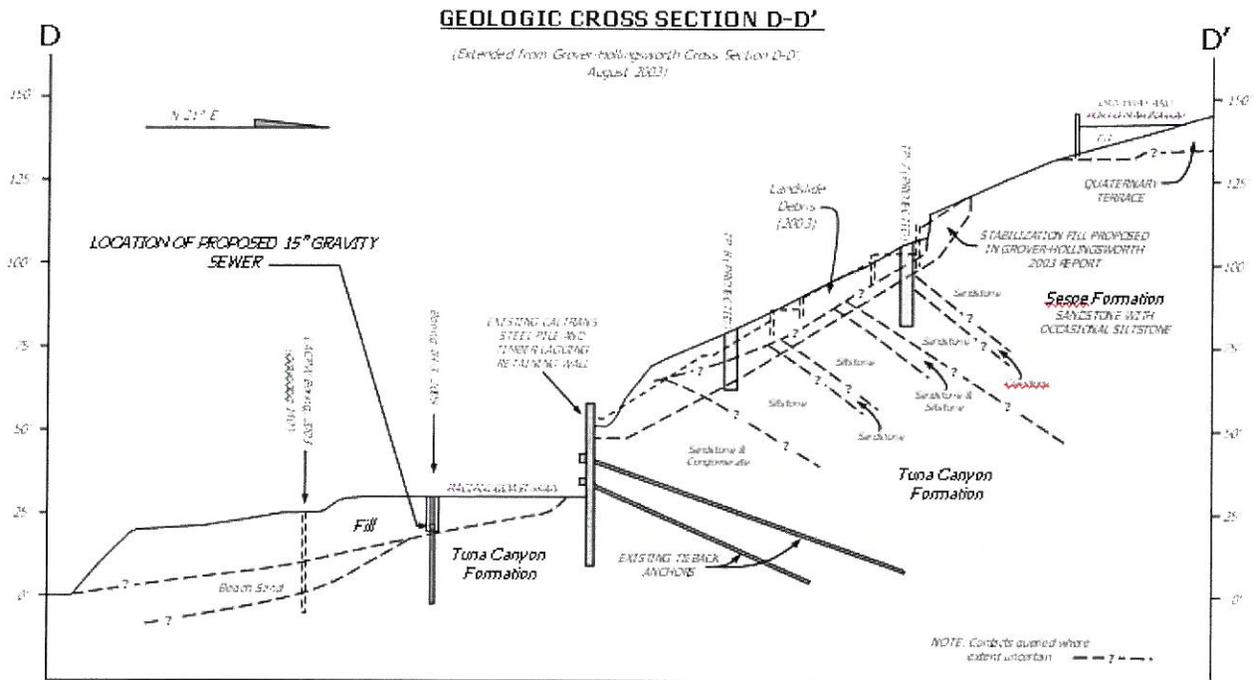


HAMILTON
& Associates

Selected Project Briefs

Los Angeles County District 27 Gravity Sewer County of Los Angeles, California

Performed excavation and logging of three hollow stem and one bucket auger exploratory boring using a truck mounted drill rig. Groundwater level measurements and sampling were performed and spoils from each sample tested with an Organic Vapor Analyzer (OVA). A combustible gas monitor was also provided for use in test hole #2. Our evaluation included field exploration, laboratory testing and report preparation. Reports described the results of testing and discussed a review and evaluation of other geotechnical reports and design evaluations, prepared by others, in order to satisfy Caltrans permit requirements for the proposed jacking, tunneling, and open excavation work along Pacific Coast Highway.



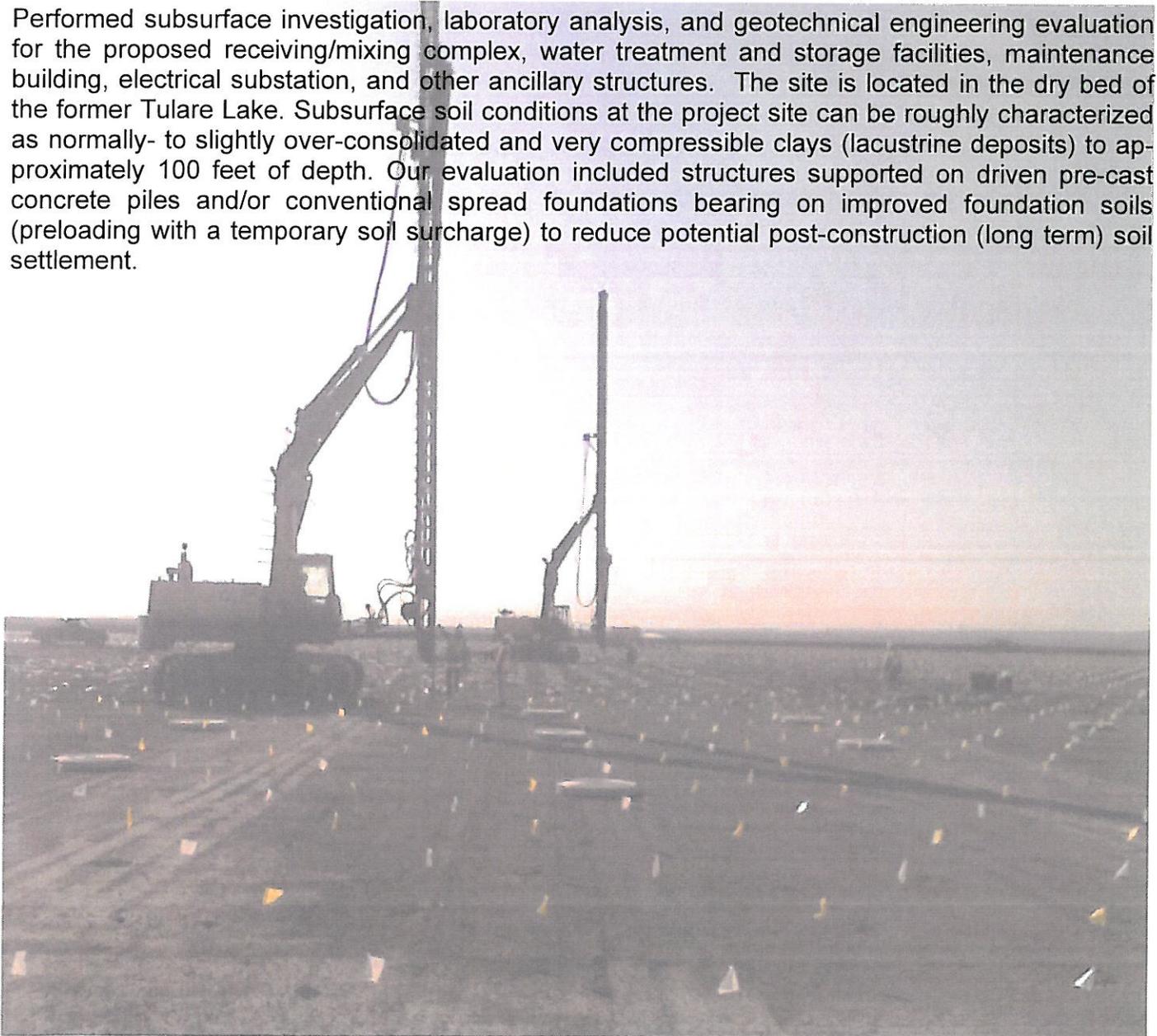


HAMILTON
& Associates

Selected Project Briefs

Biosolids Composting Facility — Kings County, California

Performed subsurface investigation, laboratory analysis, and geotechnical engineering evaluation for the proposed receiving/mixing complex, water treatment and storage facilities, maintenance building, electrical substation, and other ancillary structures. The site is located in the dry bed of the former Tulare Lake. Subsurface soil conditions at the project site can be roughly characterized as normally- to slightly over-consolidated and very compressible clays (lacustrine deposits) to approximately 100 feet of depth. Our evaluation included structures supported on driven pre-cast concrete piles and/or conventional spread foundations bearing on improved foundation soils (preloading with a temporary soil surcharge) to reduce potential post-construction (long term) soil settlement.





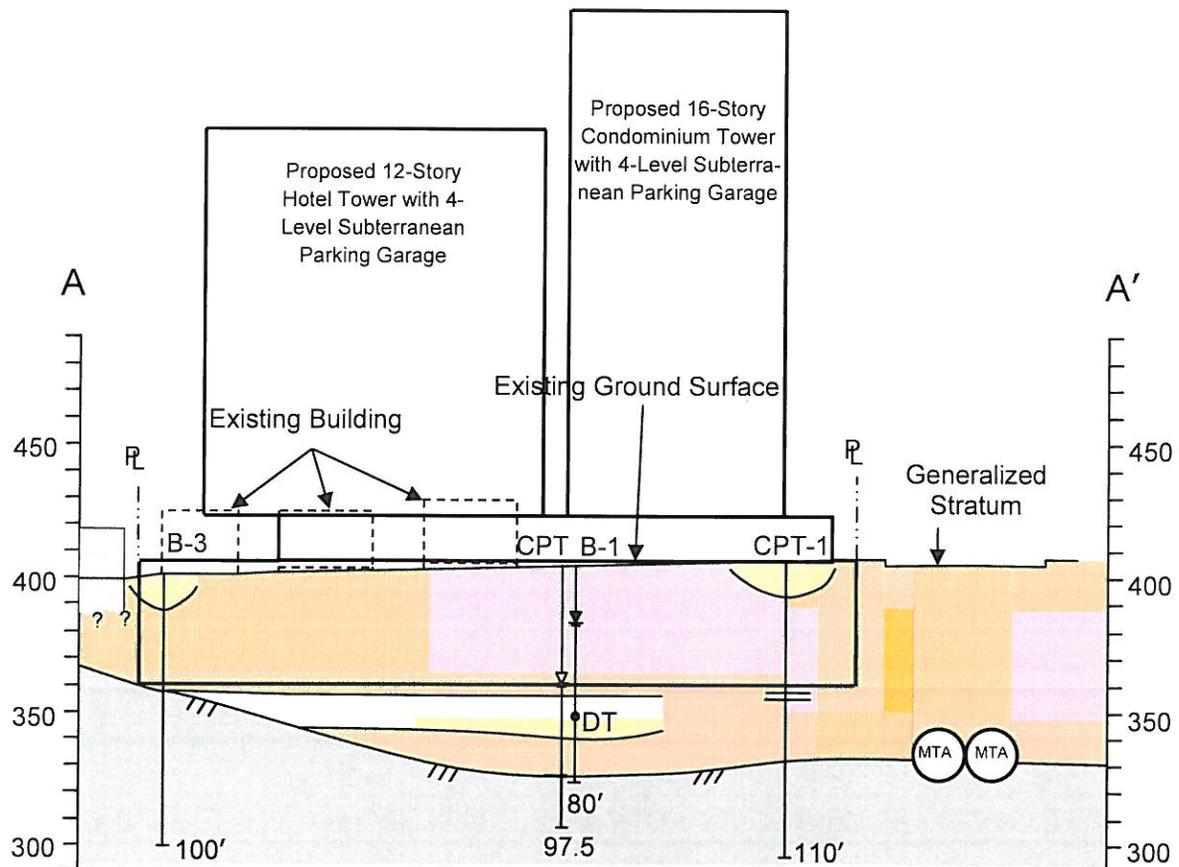
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Selected Project Briefs

Mixed-Use Development, Los Angeles, California

Performed preliminary geotechnical investigation for mixed-use commercial building project. Original scope consisted of a new 12-Story Hotel Tower, 16-Story Condominium Tower, and 2-Story Townhouses, with 3- to 4-levels of subterranean parking. Due to changes in budget, the scope was revised to a lower height 7-story above grade mixed-use building development with 1- to 2- levels of subterranean parking.

CROSS SECTION A-A'

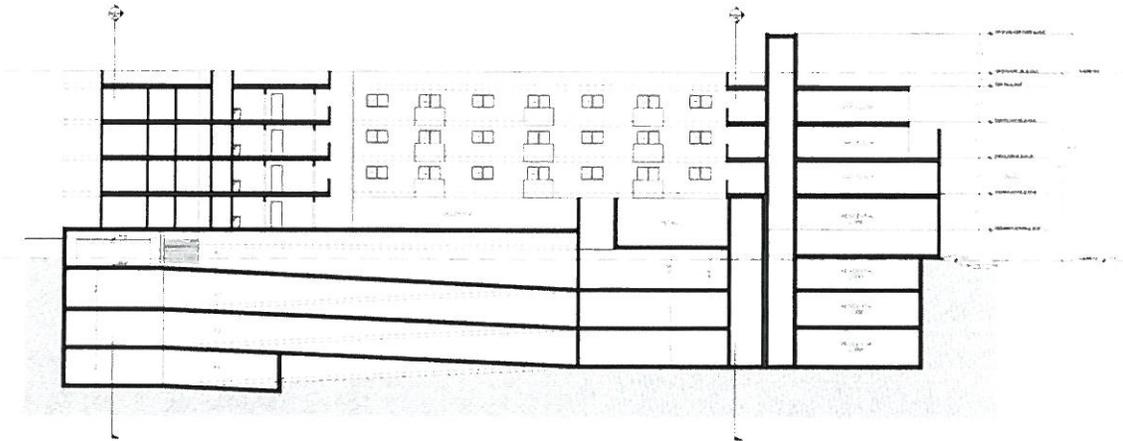




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Selected Project Briefs

Mixed-use Development — Los Angeles, California



Performed subsurface investigation, laboratory analysis, and geotechnical engineering evaluation for a 4-story mixed-use building with three (3) levels of subterranean parking. Our evaluation included field exploration, liquefaction analysis, settlement analysis, and excavation and dewatering analysis.



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Selected Project Briefs

Shredder Mill, Office Building, and Storm Water Storage Tanks Terminal Island — City of Los Angeles, California

Geotechnical exploration report and served as Geotechnical Engineer of Record for the Proposed New Shredder Mill, Office Building and Storm Water Storage Tanks. Evaluated general subsurface soil conditions at the site, including assessment of the site-specific liquefaction potential, and also provided geotechnical recommendations for the design and construction of pre-cast concrete driven piles. Recommended and supervised indicator pile program consisting of inspection, pile dynamic analysis (PDA), and CAPWAP analysis for construction of future production pile project utilizing more than 150 24-inch octagonal and 16-inch square pre-cast concrete piles.





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Selected Project Briefs

Honda Center Expansion, Sewer & Water Main Relocation City of Anaheim, California

Hamilton & Associates provided geotechnical observation and testing during construction of the Honda Center expansion project. The project included relocating approximately 700 linear feet of sewer & water main.

Prior to construction our firm performed the geotechnical exploration and evaluated subsurface conditions at the site in order to provide geotechnical recommendations for the design and construction of an approximately 22,000 square foot addition to the existing Honda Center.





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Selected Project Briefs

Covina, Public Works Sewer Replacement Project City of Covina, California

Hamilton & Associates provided geotechnical observation and materials testing for City Project No. S-1112, which consisted of Pipe Bursting and Open Trench pipeline replacement methods for approximately 5.9 miles of sanitary sewer mains comprised of eleven (11) project site groupings within the City.



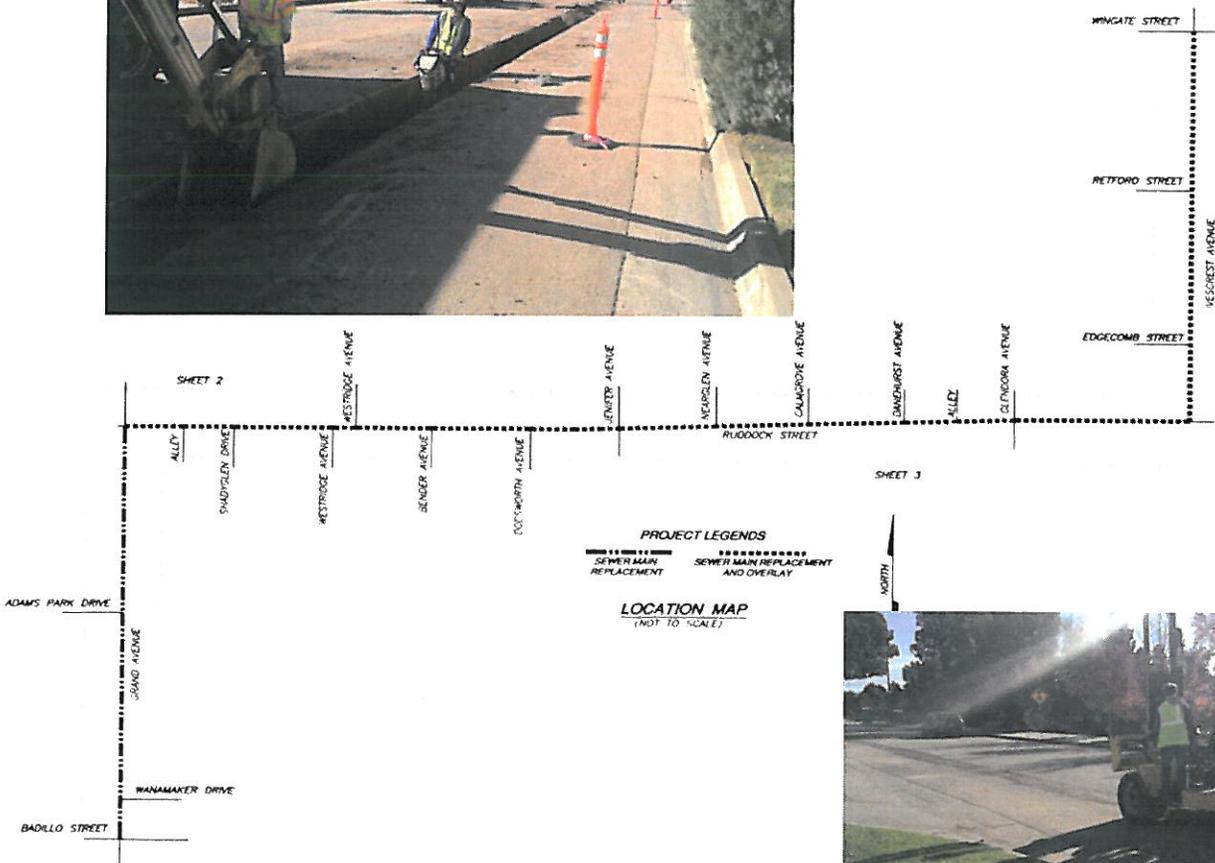


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Selected Project Briefs

Covina Public Works Sewer Main Replacement Project City of Covina, California

Hamilton & Associates provided geotechnical observation and materials testing for City Project No. S-1205, which included 5,159 feet of sewer main replacement, 2" asphalt rubber hot mix (ARHM), overlay (2,014 tons), and installation of 6,340 SF of concrete sidewalk.





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Selected Project Briefs

Redondo Beach Public Sanitary Sewer Facilities Rehabilitation City of Redondo Beach, California

Hamilton & Associates, Inc. provided geotechnical observation and testing services during removal and reconstruction of over 1,000 linear feet of defective sewer mains, thirteen (13) main-line spot repairs, pump station repairs, and various man hole repairs.



EDUCATION

M.S., Geotechnical Engineering, University of California, Berkeley, 1995
B.S., Civil Engineering, Loyola Marymount University, 1994

REGISTRATION

Registered Geotechnical Engineer, California #2721, 2006
Registered Professional Engineer, California #56590, 1997

MEMBERSHIP

Board of Directors, CalGeo, California Geotechnical Engineering Association
American Society of Civil Engineers
International Code Council

QUALIFICATIONS AND EXPERIENCE

Mr. David Hamilton has more than 16 years of broad geotechnical experience involving public works and infrastructure, industrial facilities, land development, water and wastewater, retail, commercial, and residential geotechnical and geological investigations, foundation design, and soils and materials testing. Mr. Hamilton previously taught as a Professor of Soil Mechanics and Solid Waste Engineering in both the undergraduate and graduate civil engineering programs at Loyola Marymount University. He has extensive experience in shallow and deep foundation design, slope stability analyses, pavement design, construction observation and testing, and landfill design. His relative project experience includes:

- **City of Manhattan Beach, City Yard Cover Project, Manhattan Beach, California.** Performed subsurface investigation, laboratory analysis, and geotechnical engineering evaluation for a two (2) open-air Steel Structures at the north and west sides of the city maintenance yard, including PCC pavement, and a new sewer line. Our evaluation included field exploration, settlement analysis, and recommendations for temporary excavations and grading.
- **Los Angeles County Beach Avenue Pumping Plant Force Main No. 2, Avenue and Hillcrest Avenue, Inglewood, California.** Performed engineering geologic evaluation as part of overall geotechnical investigation for construction of proposed new sewer alignment. Included evaluation of site geologic and ground water conditions, and preparation of detailed soil profiles pertinent to proposed tunneling and/or jacking techniques for pipe construction.



- **Los Angeles County, Joint Outfall “J” Unit 5B Force Main No. 2, Doris Way, Robert Road and Pacific Coast Highway, Torrance, California.** Performed engineering geologic evaluation as part of overall geotechnical investigation for construction of proposed new sewer alignment and underground storage tank. Included evaluation of site geologic and ground water conditions, and preparation of detailed soil profiles pertinent to proposed tunneling and/or jacking techniques for pipe construction; seismic history and setting relative to nearby fault systems, and geologic hazard evaluation.
- **Los Angeles County District 27 Gravity Sewer, Coastline Drive and along Pacific Coast Highway, County of Los Angeles, California.** Performed engineering geologic investigation in Caltrans Right of Way for construction of proposed new sewer alignment. Included evaluation of site geologic and ground water conditions, and preparation of detailed soil profiles pertinent to proposed tunneling and/or jacking techniques for pipe construction; seismic history and setting relative to nearby fault systems, and geologic hazard evaluation.
- **Los Angeles County Joint Outfall “C” Relief Trunk Sewer, Lomita Boulevard, Los Angeles City (Wilmington Area), California.** Performed engineering geologic evaluation as part of overall geotechnical investigation for construction of proposed subsurface 8-foot-diameter sewer pipe along alignment of Lomita Boulevard, extending beneath Alameda Boulevard and Tesoro Refinery. Included evaluation of site geologic and ground water conditions, and preparation of detailed soil profiles pertinent to proposed tunneling and/or jacking techniques for pipe construction; seismic history and setting relative to nearby fault systems, and geologic hazard evaluation. Geotechnical concerns at the site include groundwater elevation, soft soil deposits and hydrocarbon contamination, and numerous active petroleum product supply pipes along the proposed tunneling route.
- **Westlake Farms Biosolids Composting Facility, Los Angeles County Sanitation Districts, Kings County, California.** Performed subsurface investigation, laboratory analysis, and geotechnical engineering evaluation for the proposed receiving/mixing complex, water treatment and storage facilities, maintenance building, electrical substation, and other ancillary structures. The site is located in the dry bed of the former Tulare Lake. Subsurface soil conditions at the project site can be roughly characterized as normally- to slightly over-consolidated and very compressible clays (lacustrine deposits) to approximately 100 feet of depth. Our evaluation included structures supported on driven pre-cast concrete piles and/or conventional spread foundations bearing on improved foundation soils (preloading with a temporary soil surcharge) to reduce potential post-construction (long term) soil settlement.



- **Southern California Edison, Savage Substation Expansion, Hesperia, California.** Geotechnical Engineer for Southern California Edison Savage Substation Expansion on alluvial deposits. Evaluated general subsurface soil conditions at the site, and provided geotechnical foundation recommendations for shallow retaining walls, transformers on raft foundations, and controls on deep pier foundations.
- **JAO Entrance Improvements and Office Trailers, Los Angeles County Sanitation Districts, County of Los Angeles, California.** Prepared geotechnical exploration report, served as Geotechnical Engineer of Record, and supervised construction observation and testing for Proposed JAO Entrance Improvements and Office Trailers. Work included liquefaction analysis, settlement analysis, and general foundation design criteria. Construction observation included bottom and footing observations, compaction testing during fill placement for the building pad, retaining wall, and utilities.
- **Shredder Mill, Office Building, and Storm Water Storage Tanks Terminal Island, City of Los Angeles, California.** Geotechnical exploration report and served as Geotechnical Engineer of Record for the Proposed New Shredder Mill, Office Building and Storm Water Storage Tanks. Evaluated general subsurface soil conditions at the site, including assessment of the site-specific liquefaction potential, and also provided geotechnical recommendations for the design and construction of pre-cast concrete driven piles. Recommended and supervised indicator pile program consisting of inspection, pile dynamic analysis (PDA), and CAPWAP analysis for construction of future production pile project utilizing more than 150 24-inch octagonal and 16-inch square pre-cast concrete piles.
- **Multi-Level Mixed-Use Building, Los Angeles, California.** Performed subsurface investigation, laboratory analysis, and geotechnical engineering evaluation for a 4-story building mixed-use building with three (3) levels of subterranean parking. Our evaluation included field exploration, liquefaction analysis, settlement analysis, and excavation and dewatering analysis.
- **Multi-Story Mixed Use Commercial Building, Hollywood, California.** Performed geotechnical engineering evaluation as part of overall geotechnical investigation for proposed new mixed-use commercial building, including subterranean parking levels. Included evaluation of site geologic conditions, seismic setting relative to nearby fault systems, and geologic hazard evaluation. Geological concerns at the site included differential alluvial depths and character, and evaluation of historic high ground water levels.
- **Harbor Community Church Development, Carson, California.** Prepared geotechnical exploration report for proposed Church Building and served as Geotechnical Engineer of Record. Work included evaluated general



subsurface soil conditions at the site, liquefaction analysis, settlement analysis, and foundation design criteria.

- **Apartment Building, Tarzana, Los Angeles, California.** Geotechnical Engineer for four-story above ground and two-story subterranean parking for an apartment building on alluvial deposits. Evaluated general subsurface soil conditions at the site, including assessment of the site-specific liquefaction potential, and also provided geotechnical foundation recommendations.
- **Puente Hills Landfill, Los Angeles County, California.** Geotechnical and Hydrogeological Investigation and Design of the Eastern Canyons Expansion Area. LACSD Project Manager for subsurface investigation, aquifer testing, slope stability analyses, earthquake design, and development of the footprint for a 130-acre landfill expansion project.
- **Puente Hills Landfill, Los Angeles County, California.** Construction Quality Assurance Services for Phase 2, 3, and 4 Composite Liner Systems. LACSD Project Manager responsible for daily inspection, material testing, certification, to gain regulatory approval for a \$15.5 million multi-phased construction project.
- **Puente Hills Landfill, Los Angeles County, California.** Geotechnical Design and Construction for the Lower Western Cut and Slope Stabilization Project. LACSD Project Manager for subsurface investigation, slope stability analyses, and earthquake design for an \$8 million excavation and side slope stabilization project. Duties included design engineer for contract drawings and specifications. Los Angeles County Sanitation Districts' engineers completed the final design and construction.
- **Puente Hills Landfill, Los Angeles County, California.** Construction Quality Assurance Services for the Phase 4 Dewatering System. LACSD Project Manager responsible for daily inspection, material testing, certification, and design of an innovative \$2.2 million slope stabilization project, involving the installation of 90,000 linear feet of hydroaugers to reduce adverse groundwater conditions on a 300-foot vertical cut slope.
- **Puente Hills Landfill, Los Angeles County, California.** Slope Stability Design for the Phase 2 Expansion Area. Geotechnical Design Engineer and Construction Manager for a 500-foot vertical cut slope requiring the design and construction of a 200-foot vertical earth fill buttress, hydroaugers, and installation and monitoring of slope inclinometers.
- **Residential Street Reconstruction/Rehabilitation, City of Fullerton, California.** Geotechnical Engineer for the City of Fullerton Residential Street Reconstruction/Rehabilitation project. The primary focus of the project was to



evaluate the existing asphalt pavement and subgrade soil conditions at more than 30 city streets by drilling thirty five exploratory borings to depths of 4 to 5 feet below the existing grades and providing geotechnical recommendations for subgrade preparation and pavement reconstruction. Full time observations of the drilling operations and gathering of representative relatively undisturbed and bulk samples of the subsurface materials were conducted. Laboratory testing of selected representative samples obtained for classification and determination of geotechnical engineering characteristics were also conducted. Additionally, engineering analyses were conducted to develop geotechnical criteria for the design and construction of new pavement sections, and site grading.

- **Greystone Homes, City of Fullerton, California.** Geotechnical Engineer for Portions of Greystone Homes Tract 16137, Marston at Amerige Heights in the City of Fullerton, California. The primary focus of the project was to provide pavement design recommendations for seven proposed street sections for Portions of Tract 16137, Marston at Amerige Heights in the City of Fullerton, California. Near surface soil samples were collected from each street and the "R"-Value Stabilometer results were determined by laboratory testing in accordance with California Standard Test Method 301. Pavement sections were designed utilizing the method for design of flexible pavements in the Caltrans Highway Design Manual.
- **Orange County, California.** Prepared geotechnical exploration report and served as Geotechnical Engineer of Record for Proposed Segmental Retaining Wall. Performed design calculations for a 900 feet Verdura 40 retaining wall. Analysis included static and dynamic global slope stability analysis for the proposed Verdura wall and slopes. The maximum height of the Verdura Wall, including embedment was approximately 23 feet, additionally the wall was located at the base of a 2:1(H:V) slope. The wall was designed with Miragrid 10XT and 20XT geogrid as the primary reinforcement. This design was prepared in general accordance with AASHTO/FHWA design method.
- **San Juan Capistrano, California.** Prepared geotechnical exploration report and served as Geotechnical Engineer of Record for a Segmental Retaining Wall. Analysis included static and dynamic global slope stability analysis for the proposed Verdura wall and slopes. The maximum height of the Verdura Wall, including embedment was approximately 20 feet. The wall was designed with Miragrid 20XT geogrid as the primary reinforcement. This design was prepared in general accordance with the National Concrete Masonry Association (NCMA) design method.
- **Inglewood Park Cemetery Mausoleum Addition and Access Roads, Inglewood, California.** Geotechnical Engineer for the Inglewood Park Cemetery Mausoleum Addition, in the City of Inglewood. The primary focus of the project was to evaluate the aggregate base materials at the site and provide



geotechnical recommendations for the design and construction of the mausoleum addition and access roads. Recommendations included the use of lime treatment in the structural pavement section and vapor barrier placement prior to placing mat foundations and concrete slabs.

- **Ladera Ranch, County of Orange, California.** Geotechnical Engineer of record providing precise grading plan review, foundation design, and slope stability recommendations for multiple phases of the Ladera Ranch planned residential community including single-family production buildings, recreation buildings, common areas, and associated drive and parking areas.

