RFQ No. 111–21
REQUEST FOR QUALIFICATIONS FOR SPECIAL INSPECTION SERVICES

Submit Request To:
Purchasing Department of the Newport Mesa Unified School District
Attn: Jonathan Geiszler, Director, Purchasing & Warehouse
2985 Bear St., Bldg. A
Costa Mesa, CA 92626

Submittal Due Date: May 19, 2021
Submittal Due Time: 4:00 PM PST

universalengineering.com
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SECTION 1

Business Profile
COMPANY OVERVIEW

For nearly six decades, Universal Engineering Sciences (UES) has provided essential engineering services throughout the United States, including Geotechnical Engineering, Construction Materials Testing and Inspection, Building Code Compliance, Environmental, Occupational Health and Safety, and Building Envelope. UES is the largest national experienced and resource-rich firm of its kind and has established a family of companies across the U.S., now operating with over 2,150 professionals at 48 national branches.

Our work includes both public and private clients and consists of projects ranging from transportation and healthcare to commercial and education. Our engineers, geologists, certified inspectors, and scientists offer an unwavering commitment to excellence, approaching each project as an opportunity to cultivate enduring relationships with our clients. Built on experience and driven by a determination to see our clients through to success, UES remains focused, optimistic, and grounded in excellence.

With a growing demand for geotechnical and construction materials testing and inspection services, UES has become the most reliable, cost-effective resource for school district projects, focused on improving the longevity of projects in the most cost-effective manner for our clients. In order to meet the increased demand for services, UES has strategically acquired new companies across the United States, including Construction Testing & Engineering, Inc. (CTE). CTE is a multi-disciplined engineering company providing a large scope of services, including geotechnical engineering, environmental investigation, and materials testing and inspections. UES’ Irvine office and its subsidiaries in California are DSA-certified and fully capable of servicing K-12 projects from the planning phased to construction.

LOCAL OFFICE AND LABORATORY

Our proximity enables UES to mobilize its professional and field staff in less than 24 hours upon request. This lab enables our team to provide high-quality laboratory services and a unique introduction to our new CTE team members. All laboratory testing done through CTE’s Riverside office is temporary while our UES lab in Irvine awaits official DSA certification. In the meantime, our qualified personnel from both CTE and UES will be working to address the requests presented by the District.

All of our sample results are uploaded by the laboratory managers to track the progress of samples during testing. Utilizing our company-wide server allows the UES Project Manager to perform...
real-time oversight of laboratory testing flow for any sample delivered to our labs. Each of our laboratories follows the Quality Systems Manuals and have Quality Assurance oversight by our Quality Systems Manager. With this type of in-house support, UES provides its clients with a multitude of capabilities ranging from preliminary investigations through to final design.

We are inspected and accredited by the National Institute for Standards and Technology (NIST) through their Cement and Concrete Reference Laboratory (CCRL) and AASHTO Materials Reference Laboratory (AMRL) Inspection and certification programs, as well as Division of State Architects (DSA). UES’ laboratory is audited annually by the International Accreditation Service (IAS) offered through the International Code Council (authors of the International Building Code). UES is an Army Corp of Engineers approved agency and testing laboratory to better support federal projects, further demonstrating the high caliber of the equipment, staff, and processes that function in the UES lab. Finally, our individual laboratory staff members continuously pursue and obtain certification by ACI, NICET, NAQTC and IAS to ensure that proper laboratory techniques and methods are followed.

QUALIFIED PROFESSIONALS

Our professional staff has all required professional licenses, registrations, and/or certifications mandated by local, state, and federal regulatory agencies. Our professional engineers and geologists are highly experienced in working with DSA and CGS Note 48 requirements. Additionally, our laboratory managers and field technicians are familiar with the requirements of DSA based on latest California Building code, as well as the testing requirements based on available IR forms produced by DSA. Our project managers are familiar with reporting and distribution of reports in BOX, which DSA elected to use for project correspondence from Design and Planning phased to construction. UES is fully capable of providing Out-of-State and In-State fabrication shop inspection for the school district on an as needed basis due to abundance of resources and technical personnel.

CORPORATE HEADQUARTERS OF PARENT COMPANY

Universal Engineering Sciences
4205 Vineland Rd., Suite L1
Orlando, FL 32801

ESTABLISHED

1964 in Florida (56 years in business)

POINT OF CONTACT

Rouzbeh Afshar
Geotechnical Engineer and Department Manager
Email: rafshar@universalengineering.com

OFFICE IN CHARGE

Universal Engineering Sciences
16 Technology Drive, Suite 139
Irvine, CA 92618
p. 949.537.3222

ALL OFFICE LOCATIONS

West Sacramento, CA
San Diego, CA
Irvine, CA
Stockton, CA
Escondido, CA
Riverside, CA
Riverside, CA
Las Vegas, NV
Las Vegas, NV (IQC)
Reno, NV
Salt Lake District, UT
Orlando, FL (HQ)
Clewiston, FL
Daytona Beach, FL
Delray Beach, FL
Fort Pierce, FL
Gainesville, FL
Jacksonville, FL
Miami, FL
Ocala, FL
Palm Coast, FL
Panama District, FL
Pensacola, FL
Port St. Lucie, FL
Rockledge, FL
Sarasota, FL
St. Petersburg, FL
Tampa, FL
West Palm Beach, FL
Birmingham, AL
Buford, GA
Douglasville, GA
Kennesaw, GA
Norcross, GA
Tifton, GA
Metro DC Area
Knoxville, TN
Nashville, TN
Chattanooga, TN
Tri-Cities, TN
Charlotte, NC
Raleigh, NC
Charleston, SC
Columbia, SC
Greenville, SC
UES has amassed comprehensive geotechnical experience from various public and private project types. Our geotechnical professionals perform detailed site investigations that assess the critical properties of soil, rock, and groundwater. UES staff then evaluates subsurface data. It produces critically important design-level reports that are factored into a project before the construction begins for foundation, slope grading, or other ground modifications. Additionally, our engineering geologists apply their scientific knowledge and experience to the planning, design, construction, and maintenance of the proposed structures. Geological hazards, such as faults and landslides, are recognized and mitigated before the actual structure’s construction begins.

Our coordinated geotechnical team will conduct comprehensive and thorough site investigations to determine subsurface soil, rock, and groundwater conditions. Geotechnical investigations include analysis and recommendations for site grading, excavation, slope stability, shoring, foundation design, and necessary design above and below-grade walls.

Our fundamental objectives are a cost-effective recommendation associated with design practicality and rapid information turnaround for our clients.

We understand the need for urgency when referring to test results. With that in mind, we plan to provide results immediately upon the completion of testing via telephone and provide written test results (in report format) within three working days of the completion of testing.

We understand that the District’s as-needed geotechnical services can vary in range and include geologic hazards studies, subsurface investigations and lab testing, soils analysis, geotechnical/soil engineering observations during site preparation, professional recommendations regarding the removal of unsuitable materials, and general observation. However, we are prepared to provide a plethora of geotechnical services including but not limited to the following:

**Geo Engineering Services**
- Engineering Evaluation
- Dynamic Site Response
- Soil/Formation Analysis
- Load Bearing Determination
- Drainage Evaluations
- Pavement Design
- Slope Stability Analysis
- Foundation Design
- Concrete Recommendations
- Earthwork/Soils Density
- Report Preparation
Geo Exploration Services
- Geotechnical Investigation
- Subsurface Exploration
- Fault Evaluations
- Hazardous Materials
- Surface Reconnaissance
- Seismic Assessments
- Test Pit Excavation
- Site Borings
- Sample Collection
- Laboratory Analysis

Civil Engineering & Surveying
- Land Use Planning
- Grading Design
- Road Design
- CEQA Drainage
- Storm Drain Design
- Sewage Treatment
- Septic Systems Designs
- Retaining Wall Design
- Detention, Retention and Desilating Basin Designs
- LID Practices
- LEED Practices
- Topographical Survey
- Construction Survey
- Alta Survey
- Hydro-graphic Survey

All of our professionals on-site and in-house will be aware of the requirement to work in accordance/compliance with all project documents, county ordinances, regulations, laws, standard industry practices, and applicable codes (including but not limited to ICC, CBC, ASTM, ACI, AASHTO, AWS Standards, Greenbook, Whitebook, DSA, and more). All of the work will be conducted under the supervision of a Registered Geotechnical Engineering, who will monitor and ensure that the project progresses accurately, efficiently, and effectively.

MATERIALS TESTING SERVICES AND LABORATORY SUPPORT
Supporting our team is UES’ in-house laboratories. UES provides a wide variety of laboratory testing services at our offices in Irvine and Riverside. In addition to conducting standard tests for typical construction materials (including soils, concrete, asphalt, steel, and masonry), we also have the technology and expertise to conduct specialized, less commonly performed tests. Additionally, UES’ laboratory facilities maintain current accreditations from:
- Division of the State Architect (DSA) LEA Nos. 116 and 227
- Caltrans
- Office of Statewide Health Planning and Development (OSHPD) - OPAA-0031-16
- American Association of State Highway and Transportation Officials (AASHTO)
- U.S. Army Corps of Engineers

UES’ lab operates under the direct supervision of a Senior Registered Civil Engineer, who reviews all procedures and reports for all tests performed. All our UES field and laboratory technicians maintain current certifications appropriate to their duties from:
- Division of the State Architect (DSA)
- Caltrans
- American Welding Society (AWS)
- American Concrete Institute (ACI)
- National Concrete Masonry Association
- International Code Council (ICC)
- National Institute for Certification in Engineering Technologies (NICET)

INTERNAL QUALITY ASSURANCE
UES has established and maintained strict quality assurance procedures to ensure the accuracy and reliability of its testing and inspection services. These procedures include continual reviews, inspections, and certifications from federal, state, and local agencies; participation in proficiency testing programs; providing and maintaining a sound reference library; extending support and incentives for classes; training and certifications for personnel; and constant checking, reviewing, and
monitoring of testing and inspection procedures, personnel, and reports.

UES is proud to be one of the few testing laboratories in Southern California with AASHTO accreditation in all disciplines. To ensure that the laboratory testing standards set by AASHTO are incorporated and maintained, UES participates in the proficiency sampling and testing program conducted by the AASHTO Materials Reference Laboratory (AMRL).

RAPID AND TIMELY TEST DATA TURNAROUND

From initial project design through final approval, our regional laboratory services ensure rapid and timely test data turnaround. Our laboratory technicians inspect, test, and certify virtually every type of soil, construction materials, and failure analysis evaluation required in today’s diversified building environment. Our certified and licensed laboratories offer a full range of site inspection testing and quality management programs that allow our clients the distinct opportunity to work with a single, reliable, and dedicated materials testing laboratory throughout the longevity of the project.

FIELD SERVICES

Soils
By conducting on-site tests and monitoring, UES can analyze the suitability of soils for structural fill, determine the need for moisture adjustment, and provide an overview of earthwork activities.

Concrete
Our inspection services also include sampling concrete for air content, slump, temperature, and unit weight; making cylinders for compressive strength tests; and observing concrete placement.

Our staff is also experienced with inspection of post-tensioned concrete and precast-prestressed concrete, should these systems be used on the project.

Asphalt
Our asphaltic concrete inspection services are designed to ensure that the District’s asphalt pavement system is constructed per project requirements.

UES can provide field quality control to determine and monitor temperature, lift thickness, and compaction using core samples, as well as verification of aggregate gradation, asphalt content, bulk specific gravity, stability, and flow.

UES also provides more advanced inspection services such as:

- Asphalt and Concrete Batch Plant Inspection
- Contractor Quality Control (CQC)
- Drilled Shaft
- Floor Flatness/Levelness Evaluation
- Maturity and Relative Humidity of Concrete
- Prestress/Precast
- Welding and Metals Fabrication

CONSTRUCTION MATERIALS LAB TESTING

UES maintains full-service laboratory testing capabilities from each of our offices and performs testing services in the following fields of construction materials:

- Aggregate
- Asphalt and Bituminous Materials
- Corrosion Testing of Soil
- Concrete
- Earthwork Soils Material
- Masonry Units
- Non-Destructive Testing
PROJECT TEAM

OVERVIEW
UES employs some of the most talented and experienced practitioners in the industry. UES understands the District’s desires to contract with well-qualified firms capable of providing superior geotechnical and materials testing services.

UES, with Dan Math, RCE, GE (CTE Principal in Charge); Dr. Rouzbeh Afshar, PhD, PE (Business Unit Manager and Project Manager); Dharmesh Amin, MS, PE, GE (Senior Civil & Geotechnical Engineer); Dean Stanphill, PE, GE, CEM (Senior Civil & Geotechnical Engineer); Nadim Sunna, MSc., QSP, PE, PG, CEG (Senior Certified Geotechnical Engineer); and Ernest Roumelis, PG, CEG (Senior Certified Engineering Geologist) will provide the highest quality services in compliance with the governing jurisdiction and design standards. As a local and regional firm with offices in Riverside and Irvine, the team has cultivated long-term relationships with public agencies and entities throughout California.

When you work with UES, you’ll be interacting with industry professionals who pride themselves on the highest level of integrity, dependability, ethics, and quality of work. More so, they are exceptionally innovative, dynamic, and responsive. We want the District to think of UES as an extension of their organizations and their trusted advisors.

OUR PEOPLE
UES’ reputation, facilities, and culture attract some of the most experienced and knowledgeable professionals in the industry. An unmistakable passion for excellence is ever-present as is a camaraderie and eagerness to teach, learn, and contribute to our clients’ success.

Our professional staff consist of multi-certified and licensed professionals valued for their experience, professional knowledge, and desire to surpass our clients expectations. With a rising demand for geotechnical and materials testing services, we have become a dependable, customer-centric firm, serving as a premier resource for new projects. We understand that we are serving as an ambassador of the District, so our team will ensure the highest level of professionalism. We are currently providing as-needed support for multiple educational projects in California, so UES is uniquely familiar with the daily workflows and requirements.

Although overall firm credentials and experience are important, the key to success on any assignment is the professional capabilities of the specific individuals assigned to the project team. UES has highly skilled, registered professionals in close proximity to the District at both our Irvine and Riverside offices. They can respond quickly to the District projects, keeping your projects on schedule.
QUALITY OF SERVICE

At UES, we pride ourselves on continuously utilizing best practices that provide clients with quality services that they can rely upon. Based on decades of experience, industry knowledge and a relentless dedication to advancement, we are able to provide expert solutions through innovative approaches, quality services and engineering excellence. As a professional and innovative firm with traditional work ethics, UES is recognized for our effective performance, tireless workmanship, and commitment to successful completion of given tasks. We have established a reputation as a trusted partner to our clients.

Our commitment to our clients is second to none, and the team presented in this package is committed to timely responses to the District. The project management team will ensure the correct technical expert will be assigned and available for meetings, joint field work and other combined efforts. Our staff is supported by committed leaders and a comprehensive set of resources, including one of the largest fleets, modern high-capacity drill rigs, and state-of-the-art laboratories capable of performing AASHTO, ASTM, and USACE accredited testing on soils, rock, and aggregate samples. Our standard of performance is to provide the needed service correctly the first time.

UES IRVINE, CA PROJECT TEAM

Principal in Charge
*Dan Math, RCE, GE

Project Manager
Business Unit Manager
*Rouzbeh Afshar, PhD, PE

Engineers
*Geotechnical Engineers
*Dharmesh Amin, MS, PE, GE
*Dean Stanphill, PE, GE, CEM
*Nadim Sunna, MSc, QSP, PE, PG, CEG

Geologists
*Senior Certified Engineering Geologist
*Ernest Roumelis, PG, CEG
Dan Math, RCE, GE
Principal in Charge - CTE, Riverside Office

Mr. Math has over 23 years of Civil, Geotechnical, and Materials Engineering design, evaluation, and inspection experience. In addition to copious Geotechnical Engineering experience, Mr. Math has an extensive background in construction quality control/assurance management. Responsibilities have included a range of professional disciplines that include management oversight of public schools, airports, federal military construction, public works, commercial, and residential developments. Scopes of work have included geotechnical investigations, geotechnical observation and testing during earthworks, foundation observation and inspection during construction, and supervision/quality control management as the engineer of record for structural materials and special inspection laboratories and programs.

**PROJECT EXPERIENCE**

**Education Experience**

**Montgomery Middle School New Classroom, Cafeteria, Library and Counseling Center**
Chula Vista, California

**Montgomery High School Modernization**
Chula Vista, California

**Sage Creek High School, Carlsbad USD**
Carlsbad, California

**Sage Creek High School Performing Arts Center**
Carlsbad, California

**Oceanside High School Performing Arts Center**
Oceanside, California

**Oceanside HS, Chavez Middle School, and El Camino HS**
Oceanside, CA

**Chula Vista High School Geotechnical Investigation**
Chula Vista, California

**Willow Elementary School Geotechnical Investigation**
San Ysidro, California

**Del Lago Academy**
Escondido, California

**Palmquist Elementary School**
Oceanside, California

**Libby Elementary School**
Oceanside, California

**Palomar College, Math and Sciences Building**
San Marcos, California

**Palomar College, Library/Learning Resources Center**
San Marcos, California

**San Ysidro School #8 and Willow Elementary School**
San Ysidro, California

**San Ysidro USD**
San Ysidro, California

**Mission Hills High School and San Elijo Middle School, Escondido USD**
Escondido, California

**Orange Glenn HS, Escondido HS, San Pasqual HS, Escondido UHSD**
Escondido, California

**DSA Experience – Geotechnical & Construction Materials Testing**

**Palomar College T Building Storage**
San Marcos, California

**Palomar College South Education Center**
San Marcos, California

**Palomar College North Education Center**
San Marcos, California
Palomar College Learning Resource Center
San Marcos, California

Palomar College Math and Science Building
San Marcos, California

Southwestern College Performing Arts Center
Chula Vista, California

Southwestern College Wellness and Aquatics Center
Chula Vista, California

Southwestern College Field House
Chula Vista, California

Numerous Grossmont Union High School District projects
Grossmont, California

Numerous Oceanside Unified School District projects
Oceanside, California

Numerous Escondido Union School District projects
Escondido, California

Numerous San Marcos Unified School District projects
San Marcos, California

Mission Hills High School (San Marcos USD)
San Marcos, California

UC Merced New Campus (UC Merced)
Merced, California

University of California, San Diego, Biomedical Library
San Diego, California

California State University, San Marcos, Business School and Administration Buildings
San Marcos, California

San Diego State University, Calpulli Student Health Services Center
San Diego, California

Jenny Craig Sports Pavilion, USD
San Diego, California

Multiple elementary, middle, and high school campus upgrades and new construction.
School districts include: San Diego Unified, Oceanside Unified, San Marcos Unified, San Ysidro Unified, and more.
Rouzbeh Afshar, PhD, PE
Business Unit Manager and Project Manager

Dr. Afshar brings more 10 years of consultancy, project management, research, and teaching experience in both private industry and research institutions in the field of geotechnical and earthquake engineering. He has been involved in numerous projects serving as a Technical Lead in geotechnical earthquake engineering and foundation engineering for water, transportation, buildings, schools, and commercial/industrial projects. He has expertise in foundation evaluations, excavations (including deep excavations with shoring), shoring deflection monitoring, geotechnical earthquake engineering (including evaluation of ground motions), liquefaction, and seismic slope stability. He has also evaluated the seismic response of many sites using one-, two-, and three-dimensional finite difference and finite element computer programs, including FLAC and PLAXIS, and has conducted ground motion studies of hundreds of sites in California and Nevada. Dr. Afshar has been a long-standing member of Deep Foundation Institute (DFI), American Society of Civil Engineers (ASCE), and Structural Engineers Association of Southern California (SEAOSC).

PROJECT EXPERIENCE

Estancia High School Paving Replacement - Newport-Mesa Unified School District
Costa Mesa, California
The Estancia High School Pavement Replacement Project consists of replacement of approximately 140,000 SF of paved hard-court area located between the Estancia High School Building and Baseball Fields. Universal Engineering Sciences performed geotechnical investigation, laboratory testing and engineering analysis for the design proposed pavement section.
Our field investigation and laboratory test determined the existence of relatively wet and unstable subgrade soils which, presented a unique challenge for the design and construction of this project.
Project economics and the challenges associated with exporting unsuitable soils required outside the box thinking to mitigate the on-site soils before the new pavement section is constructed. In order to overcome the challenges associated with this project, we recommended Full-Depth Reclamation (FDR) of on-site soils by adding cement to the FDR blend to increase the strength of the soil and prepare it to support the future pavement section. There are several benefits to this approach. Existing in-place materials are recycled and used in-place, minimizing trucking and export of waste materials and import of new materials and a bridge is created between the new asphalt layer and unstable native soil.

California State University, Long Beach
Long Beach, California
CCPE Building: planning and strategizing the geotechnical field investigation including drilling and sampling using hollow stem augers, Cone Penetration Test (CPT) test and percolation test at the job site during phase 1. Phase 2 included assignment of appropriate laboratory tests and reviewing the results. Phase 3 included engineering evaluation responsibilities included performing site specific seismic design analysis, liquefaction evaluation and seismic settlement calculations, lab testing and geotechnical recommendations for grading, drainage control, Auger Pressure Grouted Displacement (APGD) piles foundations, Static Load testing of Piles and overseeing the installation of APGD piles.
California State University, Long Beach
Long Beach, California
Ph2 Addition: planning and strategizing the geotechnical field investigation including drilling and sampling using hollow stem augers, Cone Penetration Test (CPT) test and percolation test at the job site during phase 1. Phase 2 included assignment of appropriate laboratory tests and reviewing the results. Phase 3 included engineering evaluation responsibilities included performing site specific seismic design analysis, liquefaction evaluation and seismic settlement calculations, lab testing and geotechnical recommendations for grading, drainage control, Auger Pressure Grouted Displacement (APGD) piles foundations, Static Load testing of Piles and overseeing the installation of APGD piles.

Mammoth Middle School, Mammoth Lakes, California
Preliminary geological evaluation, and geotechnical investigation for the mammoth middle school including the addition of approximately 2,500 square feet of classroom space to the middle school. Our scope included geotechnical drilling and sampling, laboratory testing and prepare the geological and geotechnical recommendation report for CGS and DSA review. (Contract Value $9,000)

Mammoth Middle School
Mammoth Lakes, California
The project consists of construction of an approximately 5,000 square feet of classroom space under. UES’s scope as laboratory of record (LEA 112) consists of engineering support, material testing and inspection during the grading phase, foundation evaluation and structural erection. (Contract Value $125,000)

Language Arts Complex
Huntington Beach, California
The new LAC will provide classroom, laboratory, office and support spaces customized to the growing needs of the school’s language arts programs. The project is a three-story, 73,000-square-foot which sits on a geotechnically complex site with shallow groundwater, liquefaction potential, highly plastic clay. Dr. Afshar was the project engineer/manager during the design and development working alongside the architect and structural engineer to design the building.$45k

Savannah High School
Anaheim, California
Savannah High School Pavement Replacement project consists of full depth reclamation of subgrade soils for the existing asphalt paved surface lot. Rouzbeh was in charge of managing the project for all the field and laboratory testing. Rouzbeh was the DSA laboratory manager during the construction of the expansion project.

Golden West College, Language Arts Complex
Huntington Beach, California
The unique site for the Language Arts Complex consisted of deep soft silt and clay underlain by a liquefiable sandy soil. The compressible nature of upper soils and liquefaction potential in the deeper soils made this project very challenging from a design point of view. A system of deeply embedded Cast-in-drilled-hole (CIDH) foundation system was collectively decided to be used on this project to overcome the settlement challenges from the compressible and liquefiable soil layers. The CIDH piles were design to withstand the down drag loads and control the settlement of the building to less than 1 inch. Dr. Afshar lead the geotechnical design team and laboratory assignments to deliver a successful project. He was also responsible to respond to the design challenges for site class, down drag load calculations and surface rupture and faulting at the location of the Language Arts Complex.

Carver Elementary School
Santa Ana, California
The Carver Elementary school project consists of adding approximately 5,000 square feet of new classroom buildings to the school facilities. Acting as the project manager, Dr. Afshar lead the planning for the geotechnical field investigation including drilling and sampling using hollow stem augers, Cone Penetration Test (CPT) test and percolation test at the job site, assignment of appropriate laboratory tests and reviewing the results. He also performed Engineering evaluation responsibilities included performing site specific seismic design analysis, liquefaction evaluation and seismic settlement calculations, and geotechnical recommendations for grading, drainage control, foundation design parameters.

Oxford Academy
Cypress, California
The Oxford Academy project consists of expanding the existing pool for a new pool and equipment room the expansion also included adding a performance stage, site work and internal renovation of the gymnasium building. Rouzbeh was in charge of managing the project for all the field and laboratory testing. Rouzbeh was the DSA laboratory manager during the construction of the expansion project.
Dharmesh Amin, MS, PE, GE
Senior Civil & Geotechnical Engineer

Mr. Amin brings with him over 37 years of work experience and is responsible for overall technical supervision of professionals, inspectors and technicians. Supervised directed and monitored all engineering activities including numerous public works projects from design to construction. He has performed geotechnical and materials testing and inspection documentation on construction projects, as well as geotechnical and foundation design, report preparation and fault studies on several Public Works as well K-12 projects.

Education Experience

Moorpark College Parking Structure and Police Station
Moorpark, California

Santa Paula High School Science Center
Santa Paula, California

Riverside High School # 8
Riverside, California

Lemonwood Elementary School
Riverside, California

Oak Park Unified School District
Oak Park, California

Various projects

California State University
Channel Islands
Camarillo, California

Various projects

Los Angeles Unified School District
Los Angeles, California

Various projects

Stevenson Ranch, West Hills, West Creeks, and Brentwood Schools
Multiple Locations, California

District Reviewer/Engineer

- District of Calabasas (Risk assessments, BMW's and other projects)
- District of Santa Clarita (Risk assessments, complex situations including landslide and distress)
- On Call Professional Services - District of Thousand Oak

Material Testing

- Supervised soils, rock, concrete, steel, and asphalt testing laboratories
- Set up and certified several concrete, asphalt and soil testing laboratories including DSA, AMRL, CCRL, District of Los Angeles
- Soil corrosion testing

Environmental Engineering

- Phase I, II and III investigations
- Methane study and designs
- Air quality monitoring
- Radon, lead and asbestos testing
Dean Stanphill, PE, GE, CEM
Senior Civil & Geotechnical Engineer

Mr. Stanphill has over 35 years of geotechnical and environmental experience throughout California. He has provided professional services on numerous Department of the State Architect Projects throughout the State. His current assignment is to provide geotechnical reports and/or other services for the Mammoth Elementary School, Mammoth Middle School, and Mammoth High School. He has worked extensively on dozens of projects for the Kern County Office of Education which included not only K-12 Schools but also Bakersfield College and Cere Coso Community Colleges. Other Community College projects include those in Porterville and Lemore. Project sites in southern California include Rim of the World High School, Twin Peaks Elementary School, and six various schools for the Fontana Elementary School District.

PROJECT EXPERIENCE

Mammoth Elementary School Modernization, Mammoth Unified School District
Mammoth Lakes, California

Mr. Stanphill was the Engineer-in-charge for the construction of several new buildings as part of the modernization of the Mammoth Elementary School in Mammoth Lakes, California. Work included the inspection of all related wall and roof framing, including glue laminated beams. Mr. Stanphill is the geotechnical engineer and engineer-in-charge for all State of California school construction projects.

Mammoth Middle School & High School, Mammoth Unified School District
Mammoth Lakes, California

Mr. Stanphill is the Engineer-in-charge for the construction projects in the District.

Cold Spring Elementary School, Washoe County School District
Washoe County, California

Mr. Stanphill was part of the team of inspectors that provided welding inspection at the Cold Springs Elementary School. Services verifying weld sizes and lengths along both metal decking and other structural elements. Mr. Stanphill worked closely with Poggemeyer Design Group to review work in progress and helped identify several column clips that were not correctly welded.

Sun Valley Middle School, Washoe County School District
Washoe County, Nevada

Mr. Stanphill was part of the geotechnical team for the construction material testing and inspection at the Sun Valley Middle School. This work included several meetings with the design team, including Washoe County School District Personnel as well as the project structural engineer and the contractor. Work was closely integrated with Poggemeyer Design Group, especially with regards to various project related issues. Several of the issues that were resolved included management of cold temperature structural masonry construction and concrete placement on elevated roof decks.

School Entry Projects, Washoe County School District
Washoe County, Nevada

Mr. Stanphill worked closely with Mr. Ken Chalk of the Washoe County School District on several new school entry projects. Typically, these projects consisted of the construction of new masonry enclosures to provide a secure point of entry to the schools. Mr. Stanphill provided special inspection for several of
the projects, including structural masonry inspections.

**Super Shelter – District of Reno USEPA**

*Reno, Nevada*

UES is assisting the District of Reno with their $600,000 USEPA Coalition Assessment Grant. UES is working with the District of Reno to evaluate downtown properties for various environmental concerns and perform re-use planning and other value-added services for project development. We conducted Phase I for the 14-acre site in Reno, Nevada. We are currently working on submitting a Quality Assurance Project Plan (QAPP) and a Sampling and Analysis Plan (SAP) for review by USEPA to move onto the Phase II Investigation. The outcome of this crucial work performed by UES is to provide a transitional housing and homeless shelter hub in the District of Reno.

**Dura-Bond Bearing Company Phase II Environmental Site Assessment and Environmental Consultation**

*Reno, Nevada*

UES conducted a Phase II Environmental Site Assessment and environmental consultation at the Dura-Bond Bearing Company at 3200 Arrowhead Drive in Carson District, Nevada. This was done as part of a due-diligence regimen for our client, who is considering acquiring the property. The facility produces camshaft bearings and related components for the automotive industry. The main challenge at the site was related to the fact that, as an industrial/manufacturing facility, numerous hazardous materials were present. Examples include lead, oil, corrosives, and solvents. The facility is a Large-Quantity Hazardous Waste Generator. The tasks requested by the client exceeded the sampling typically associated with Phase II Environmental Site Assessments. They included assessing regulatory compliance about the site’s hazardous materials and making recommendations on how hazardous materials might be better managed. In May 2015, we sampled areas of the property identified as having stains and potential contamination by coring concrete and asphalt using our in-house coring rig and obtaining soil samples using our Geoprobe Sampler. The samples were transported under a strict chain of custody to a Nevada Certified Analytical laboratory. The results of these indicated the lack of containments in the subject areas. These test results were also confirmed using our handheld photoionization detector (PID). The additional scope of work regarding industrial compliance matters was conducted in October 2015. This work included a review of the Stormwater Pollution Prevention Plan (SWPPP) and Spill Prevention, Control, and Countermeasure (SPCC) plan for the facility; the nature of the facility’s compliance with Contingency Plans, Emergency Response Plans, and the Emergency Planning and Community Right-to-Know Act (EPCRA) requirements; an investigation of indoor air quality concerning OSHA regulations at the facility; and a review of the facility’s hazard-material storage and handling procedures per the Resource Conservation and Recovery Act (RCRA).

**Phase I Environmental Site Assessment, 1055 S. Rock Blvd.**

*Reno, Nevada*

Mr. Stanphill conducted a Phase I Environmental Site Assessment. The primary challenge at the site, in addition to the fact that hazardous materials and petroleum products were being used in large quantities, was the number of tenants and operators at the property. In our review of the six-year data interval, we identified two distinct “spikes” in the otherwise low level of benzene. We reported to the client that, although the impacts appear to be very small, the intervals when benzene levels increased are likely indicative that further releases to groundwater have been occurring. The potential for additional releases existed if the source of these leaks was not identified.

**Phase I Environmental Site Assessment, 150 Glendale Ave.**

*Reno, Nevada*

Mr. Stanphill conducted a Phase I Environmental Site Assessment in June 2015. The challenge with this property, beyond the usual rigors necessary, whenever an industrial site is being assessed, is that our research indicated that three 500-gallon underground storage tanks for diesel and waste oil were once on the property. When they were removed slightly more than 20 years ago, it was determined that at least one tank had leaked. Further review of the environmental records indicated that, although remediation had occurred, the case was closed by the Washoe County Health District even though one sample remained above the regulatory level of 100 parts per million Total Petroleum Hydrocarbons (TPH), though not by a large amount (130 ppm TPH). The closure determination was made after consideration by a professional and according to a prescribed legal basis. We found that, although a limited but unknown volume of hydrocarbon-impacted soil remained on the property, it represents a historically recognized environmental condition, and no sampling or further investigation was recommended.
Nadim Sunna, MSc., QSP, PE, PG, CEG
Senior Geotechnical Engineer

Mr. Sunna has over eleven years of experience within the geotechnical engineering and material testing and inspection industry. His experience began in the field of geotechnical observation and testing, which is a vital component in developing site-specific, value-engineering geotechnical subsurface investigation programs that are tailored to provide clients with cost-effective geotechnical recommendations. He has implemented this strategy while working with private developers and government agencies. In addition, Mr. Sunna has extensive experience in providing project management and oversight during construction of various types of projects, ranging from street improvements to high rise buildings. His understanding and knowledge of the building code is vital in ensuring that projects are constructed per plans, specifications and the California Building Code. The following are some of his technical abilities and selected projects: slope stability analysis, liquefaction analysis, seismic hazard analysis, shallow and deep foundation recommendations, pile analysis and design, storm water infiltration analysis, pavement evaluation design, shoring recommendations, soil laboratory data evaluation, AutoCAD drafting.

PROJECT EXPERIENCE

San Diego Unified School, Correira Middle School Field Improvement
San Diego, California
Performed third party review, observation and testing during installation of new synthetic turf within existing football field.

EF International Language Campus: New Dormitory Buildings and Site Improvements
Costa Mesa, California
Performed geotechnical investigation, laboratory testing, engineering analysis for design and construction of two 2-story and one 3-story dorm buildings. Due to the highly expansive and wet/soft subgrade soils within the site, soil-cement treatment was recommended as part of the overexcavation to stabilize the soil beneath the foundations and reduce the expansion potential.

Chapman University Rinker Campus Student Center
Orange, California
Performed geotechnical investigation, laboratory testing, engineering analysis, and prepared a geotechnical report for renovation and seismic retrofit of existing 2 story building, and also outdoor site improvements.

St. Margaret’s Episcopal School, Maintenance Building and Retaining Wall
San Juan Capistrano, California
Performed geotechnical investigation, laboratory testing, engineering analysis, and prepared a geotechnical report for design and construction of 1-story maintenance building and retaining wall to support the cut that will take place within an existing slope to create room for the maintenance building.

Chapman University, Panther Village II
Orange, California
Performed geotechnical investigation, laboratory testing, engineering analysis, and prepared a geotechnical report for design and construction of approximately 100,000 square-feet, 3-story building over two-level of subterranean parking structure.

Chapman University, Center for Science and Technology
Orange, California
Performed geotechnical investigation, laboratory testing, engineering analysis,
and prepared a geotechnical report for design and construction of approximately 100,000 square-feet, 3-story building over two-level of subterranean parking structure.

**District of Newport Beach Fire Station 5 and Branch Library**  
*Newport Beach, California*

Provided project management and oversight during construction of new fire station and branch library within the District of Newport Beach. Provided engineering support during grading of the building pad, engineering oversight and review of project dailies, coordination of special inspectors and technicians, budget oversight, and preparation of final reports.
Ernest W. Roumelis, PG, CEG
Senior Certified Engineering Geologist

Ernest W. “Ernie” Roumelis (PG, CEG) has over 25 years of experience in all stages of commercial, industrial and residential developments throughout California & the western United States. He has completed multiple geotechnical and geologic investigations, performed both large development tract scale and small development (single-family) scale residential rough-grading and post-grading monitoring and evaluation, has lead detailed and high-profile fault evaluation investigations, performed numerous slope stability analyses, liquefaction evaluations, forensic geology evaluations, site-specific ground-motion studies, multiple “School, Hospital and other Critical Facility” Engineering Geologic Investigations throughout the western United States, has handled several mining & quarry investigations and evaluations, and has provided expert-witness testimony on several of California’s major landslides and faults. His most valuable attribute is how to best help the design team deal with difficult geologic situations to “get the project back on track” and finally moving forward. Ernie Roumelis is also an Adjunct Professor of Engineering Geology with over 14 years of teaching experience at California Polytechnic State University, in Pomona; one of the largest undergraduate Civil Engineering Program in the western United States.

PROJECT EXPERIENCE

Mammoth Middle School
Mammoth Lakes, CA
The project consists of construction of an approximately 5,000 square feet of classroom space under. UES (NOVA)’s scope as laboratory of record (LEA 112) consists of engineering support, material testing and inspection during the grading phase, foundation evaluation and structural erection. (Contract Value $125,000)

Loara High School
Anaheim, CA
Currently teaming with Twining Consulting, Inc on proposed Pool Improvements.

Rowland High School
Rowland Heights, CA
AKW teamed with JRB, Inc to provide Geological Reporting Services for several proposed one to two-story structures and corresponding hardscape and landscape improvements. The project included a detailed site-specific ground motion analysis.

Garden Grove High School
Garden Grove, CA
AKW teamed with JRB, Inc to provide Geological Reporting services for proposed stadium improvements.

El Rancho Charter School
Anaheim, CA
AKW teamed with JRB, Inc to provide Geological Reporting services for proposed new structures and corresponding hardscape improvements.

Rancho Cucamonga High School
Rancho Cucamonga, CA
AKW teamed with JRB, Inc to provide Geological Reporting services for proposed new Auditorium structure and corresponding hardscape improvements.

Patrick Henry High School
San Diego, CA
AKW teamed with JRB, Inc to provide Geological Reporting services for proposed new structures and stadium improvements.
INDA Academy Charter School  
Irvine, CA  
AKW teamed with Twining, Inc to provide geological reporting services for the refurbishing of an existing realty office.

San Bernardino High School Auditorium  
San Bernardino, CA  
AKW teamed with Twining, Inc to provide geological reporting services for the new structure.
SECTION 2

Experience
OVERVIEW
At UES, we have over 56 years of experience on new construction and modernization projects across the United States. This includes the Solana Vista Elementary School Modernization project and the Perris Elementary School Modernization (IHCS) projects. Nationwide, UES has completed over 270 projects for K-12 in the last three years. The local UES team has been involved in California K-12 schools and community college projects for decades. Mr. Dean Stanphill, PE, GE, has significant experience working in California on projects overseen by the Division of the State Architect; these have included both K-12 schools, as well as community colleges throughout the state.

A listing of our project experience as requested in the RFQ can be found on the following pages.

PROJECT TEAM
As you main point of contact and the Project Manager, Dr. Rouzbeh Afshar, PhD, PE (Business Unit Manager) has over 10 years of experience on public works and education projects in the field of geotechnical and earthquake engineering. He has experience managing teams and leading communication with clients and consultants projects. Experience relevant to this contract include the Estancia High School Paving Replacement project, currently on-going. Dr. Afshar has been involved in numerous projects serving as a Technical Lead in geotechnical earthquake engineering and foundation engineering for schools, transportation, water, buildings, and commercial/industrial projects.

Dan Math, RCE, GE (CTE Principal in Charge) will lead all operations out of the Riverside location, including oversight of the DSA certified laboratory. Mr. Math has over 23 years of Civil, Geotechnical, and Materials Engineering design, evaluation, and inspection experience. In addition to copious Geotechnical Engineering experience, Mr. Math has an extensive background in construction quality control/assurance management. Responsibilities have included a range of professional disciplines that include management oversight of public schools, airports, federal military construction, public works, commercial, and residential developments.

Dean Stanphill, PE, GE, CEM (Senior Civil & Geotechnical Engineer) will serve as the Senior Civil & Geotechnical Engineer. Mr. Stanphill has over 35 years of geotechnical and environmental experience throughout California. He has provided professional services on numerous Department of the State Architect Projects throughout the State. His current assignment is to provide geotechnical reports and/or other services for the Mammoth Elementary School, Mammoth Middle School, and
Mammoth High School. He has worked extensively on dozens of projects for the Kern County Office of Education which included not only K-12 Schools but also Bakersfield College and Cero Coso Community Colleges. Other Community College projects include those in Porterville and Lemore. Project sites in southern California include Rim of the World High School, Twin Peaks Elementary School, and six various schools for the Fontana Elementary School District.

Dharmesh Amin, MS, PE, GE (Senior Civil & Geotechnical Engineer) will also serve as a Senior Civil and Geotechnical Engineer. Mr. Amin brings with him over 37 years of work experience and is responsible for overall technical supervision of professionals, inspectors and technicians. Supervised directed and monitored all engineering activities including numerous public works projects from design to construction. He has performed geotechnical and materials testing and inspection documentation on construction projects, as well as geotechnical and foundation design, report preparation and fault studies on several Public Works as well K-12 projects.

Nadim Sunna, MSc., QSP, PE, PG, CEG (Senior Certified Geotechnical Engineer) will be a Senior Geotechnical Engineer on the project. Mr. Sunna has extensive experience in providing project management and oversight during construction of various types of projects, ranging from education projects to high rise buildings. His understanding and knowledge of the building code is vital in ensuring that projects are constructed per plans, specifications and the California Building Code.

Ernest Roumelis, PG, CEG (Senior Certified Engineering Geologist) will be the Senior Certified Engineering Geologist for the team. Ernie has over 25 years of experience in all stages of commercial, industrial, and residential developments throughout California and the western United States.

PUBLIC WORKS REQUIREMENTS

Our professional engineers and geologist are highly experienced in working with DSA and CGS Note 48 requirements to prepare geotechnical and geological design reports. Additionally, our laboratory managers and field technicians are familiar with the requirements of DSA based on latest California Building code as well as the testing requirements based on available IR forms produced by DSA. Our project managers are familiar with reporting and distribution of reports in BOX which DSA elected to use for project correspondence from Design and Planning phased to construction. UES is fully capable of providing Out-of-State and In-State fabrication shop inspection for the school district on an as needed basis due to abundance of resources and technical personnel.

DISTRICT CONTRACTS

In the last three years, we have worked on the following project for the District: Estancia High School Paving Replacement. Details regarding this project can be found on the next page.

ADDITIONAL DSA PROJECT EXPERIENCE

UES’ accredited team members have completed a variety of DSA projects for K-12 school districts throughout California. The list below highlights a plethora of projects by school district.

BONSALL UNION SCHOOL DISTRICT
- Moro Hills Elementary School
- Bonsall Community Center
- Norman L. Sullivan Middle School
- Lilac Elementary School

CARLSBAD UNIFIED SCHOOL DISTRICT
- Sage Creek High School at College and Cannon
- Carlsbad High School
- Poinsettia Elementary School
- Carillo Elementary School
- La Costa Meadows Elementary School
- La Costa Heights Elementary School
- Aviara Oaks Middle School
- Calveras Elementary School
- Olivenhain Pioneer Elementary School
Southeast Elementary School
Valley Middle School Football Field
Pacific Rim Elementary School
Carlsbad USD Administrative Building
Del Mar Union School District
Del Mar Union School Shade Structure
Del Mar Heights Elementary School
Del Mar Hills School
Carmel Del Mar School

ENCINITAS UNION SCHOOL DISTRICT
Paul E. Ecke Elementary School
Ocean Knoll Elementary School
Capri Elementary School
Park Dale Lane Elementary School
Pacific View School
Flora Vista Elementary School

ESCONDIDO UNION SCHOOL DISTRICT
Rock Springs Elementary School
LR Green School
Lincoln Elementary and Intermediate Schools
Orange Glen Elementary School Parking Lot
Glen View Elementary School
Hidden Valley Middle School
Pioneer School
Rincon Middle School
Farr Avenue Elementary School
Rose Elementary School
Miller Elementary School
Oak Hill Elementary School Modernization
Conway Elementary School Modernization
Central Elementary School Modernization
Del Dois Middle School Modernization
Rose Preschool
Juniper Preschool
Mission Middle School Modernization
Miller Elementary School Modernization
Hidden Valley Middle School Modernization

ESCONDIDO HIGH SCHOOL DISTRICT
San Pasqual High School
Escondido High School Grandstands and Bleachers
Orange Glenn High School
Valley Continuation High School
Citracado High School

GROSSMONT UNION HIGH SCHOOL DISTRICT
Santana High School
Valhalla High School

Mt Miguel High School
Helix High School
Monte Vista High School
El Cajon Valley High School
Chaparral High School

OCEANSIDE UNIFIED SCHOOL DISTRICT
Oceanside High School
El Camino High School
Libby Elementary School
Lincoln Middle School
Jefferson Middle School
Santa Margarita Elementary School Modernization
North Terrace Elementary School Modernization
North River Road School Site
South Oceanside Elementary School
Del Rio Elementary School
Murray Bridge
Chavez Middle School
Laurel Elementary School
Nichols Elementary School
Stuart Mesa Elementary School
Pala West Elementary School
Woodland Elementary School
Laurel Elementary School
Ivey Ranch Elementary School
Mission Elementary School

SAN DIEGO UNIFIED SCHOOL DISTRICT
Caesar Chavez Elementary
Doyle Elementary School
Encanto Elementary School
Jefferson Elementary School
Mira Mesa High School Journalism
Mira Mesa High School Screen Printing
Rosa Parks Elementary
Sessions Elementary School
Zamorano Elementary School

SAN MARCOS UNIFIED SCHOOL DISTRICT
Mission Hills High School
San Marcos High School Band Room
San Marcos Middle School
San Elijo Hills School
Paloma Elementary School
Discovery Elementary School
North County Regional Education Center
Twin Oaks Elementary School
Experience

ORANGE UNIFIED SCHOOL DISTRICT:
- Canyon Rim Elementary School
- Portola Middle School
- Prospect Elementary School
- Anaheim Hills Elementary – Serrano Heights Sports Park
- Canyon High School

CHULA VISTA ELEMENTARY SCHOOL DISTRICT:
- Veterans Elementary School
- Arroyo Vista Elementary School
- Otay Ranch Village #11 Elementary School
- Wolf Canyon Elementary School

SWEETWATER UNION HIGH SCHOOL DISTRICT:
- Sweetwater High School
- Southwest Middle School
- Chula Vista High School
- Hilltop High School
- Montgomery High School
- Southwest High School

CAJON VALLEY UNION SCHOOL DISTRICT:
- Emerald Middle School
1. ESTANCIA HIGH SCHOOL PAVING REPLACEMENT
Costa Mesa, California

Agency: Newport-Mesa Unified School District
Contact: Lance Bidnick Administrative Director II p. 714.424.7573

Project Description: The Estancia High School Pavement Replacement Project consists of replacement of approximately 140,000 SF of paved hard-court area located between the Estancia High School Building and Baseball Fields.

Scope of Work: UES performed geotechnical investigation, laboratory testing, and engineering analysis for the design proposed pavement section. Our field investigation and laboratory test determined the existence of relatively wet and unstable subgrade soils which, presented a unique challenge for the design and construction of this project.

Project economics and the challenges associated with exporting unsuitable soils required outside the box thinking to mitigate the on-site soils before the new pavement section is constructed. In order to overcome the challenges associated with this project, we recommended Full-Depth Reclamation (FDR) of on-site soils by adding cement to the FDR blend to increase the strength of the soil and prepare it to support the future pavement section. There are several benefits to this approach. Existing in-place materials are recycled and used in-place, minimizing trucking and export of waste materials and import of new materials and a bridge is created between the new asphalt layer and unstable native soil.
2. SOLANA VISTA ELEMENTARY SCHOOL MODERNIZATION

Agency
Solana Beach School District
780 Santa Victoria, Solana Beach, CA 92075

Contact:
Ellis Webster
Director of Facilities
p. 858.794.7130

Project Description:
This $30 Million dollar modernization project scope includes the demolition of all existing classroom buildings on site and associated site improvements. The construction includes a new main 24-room classroom building, a multipurpose building, new pavements and hardscape, utility abandonment and installation, retaining walls, play areas, and landscaping. The project includes select grading to bury or otherwise mitigate expansive soils.

Scope of Work:
CTE is the Geotechnical Engineer of Record for this project. CTE performed the geotechnical investigation and provided ongoing consulting to the design team regarding the geotechnical aspects of their designs. The geotechnical investigation phase of the project included two mobilizations totaling over 20 exploratory borings to accommodate changing design concepts. CTE also performed percolation testing in accordance with regional storm water regulations.

CTE is the Laboratory of Record for the grading and soil phase of the project during the current construction. CTE is providing field observation to include building pad over-excavation verification; footing excavation verification; compaction testing of soil, aggregate base, and asphaltic concrete; utility backfill; and expansive soil mitigation. As well as the Associated laboratory testing.

CTE is also the Laboratory of Record for Special Inspection Services. CTE’s Field Inspectors provide reinforced concrete inspection; ACI concrete inspection; rebar inspection; concrete batch plant inspection; reinforced masonry inspection; post-installed drilled anchor inspection; post-installed drilled anchor testing; framing inspection; glu-lam beam inspection – shop, AWS/CWI - field welding & high-strength bolting, AWS/CWI - shop welding & high-strength bolting, non-destructive testing inspector – field, and non-destructive testing inspector – shop.

3. SAN DIEGO UNIFIED SCHOOL DISTRICT

San Diego, California

Agency:
San Diego Unified School District

Contact:
Mark Stapleton
Construction Manager/Supervisor
p. 619.358.3221

Project Description:
We currently hold an on-call contract with San Diego Unified School District, a District in which represents a little over 200 schools. We were the awarded geotechnical, materials testing and special inspection firm completing all services within that scope. Recently, we have performed our services on over 20 projects that consisted of either the construction of a Mounted PV System or a Shade Structure. The large majority of our scope in both comes from soil testing (in compliance with DSA requirements), as well as shop fabrication inspection. Each separate project had its own plans, and specifications as well as separate DSA-103 form.

Additional Recent SDUSD Projects: (2020-2021)
- Mason Elementary School Mounted PV System
- Sandburg Elementary School Mounted PV System
- Walker ES Canopy Mounted V System
- Wangenheim Middle School Canopy Mounted PV Structure
- Tierrasanta ES Shade Structure
- Jefferson ES Shade Structure
- Clay ES Shade Structure
- Porter ES Solar PV
Scope of Work:
Some of the services provided specifically are as follows: Shop Fabrication Inspection, Welding Special Inspection, Non Destructive Testing, Laboratory Compaction Testing, Steel Bend & Tensile Tests, Concrete Mix Design Review, Concrete Compression Tests, High Strength Bolt, Nut & Washer Conformance, Footing Inspection, Soil Classifications, and more.

4. CHULA VISTA ELEMENTARY SCHOOL DISTRICT
Chula Vista, California
Agency
Chula Vista Elementary School District
Contact:
Rudy Valdez-Romero
Director of Maintenance & Operations
p. 619.425.9600

Project Description:
The Chula Vista Elementary School District is one of our repeat clients who hire us to perform geotechnical, materials testing and special inspection services. Recently, we entered contract with CVESD to perform our services on nearly 50 solar panel projects across the district.

Additional CVESD Projects:
- Otay Elementary School (9/29/2017)
- Camarena Elementary School (5/8/2021)
- Leonardo Da Vinci Charter School (8/30/2018)
- Arroyo Vista Admin Remodel & Lunch Structure (10/16/2020)
- Child Nutrition Center Warehouse Freezer (11/18/2019)

5. ELSINORE HIGH SCHOOL NEW PRACTICE GYMNASIUM
Wildomar, California
Agency
Lake Elsinore Unified School District
Contact:
Gregory Bowers
Assistant Superintendent
p. 951.253.7000

Project Description:
This project consists of the ground up construction of a new 1-story high school gymnasium, with 1-toilet building. Elsinore High School decided to construct a new gymnasium with an approximate project cost of a bit over $2,450,000. The entire building is constructed with masonry units and a steel structural system.

Other Lake Elsinore Unified School District Projects:
- Alberhill Elementary School – Damaged Array (7/20/2021)
- Auto Shop Shade Structures – Elsinore High School (1/2/2019)
- Elsinore HS Baseball Fields and Dugouts (8/31/2017)

Scope of Work:
We were the awarded geotechnical support, materials testing and special inspection firm. Our work mainly consisted of welding inspection and masonry inspection as the construction went on. However a more specific scope of services is as follows: Reinforced Concrete Inspection, Rebar Inspection, Concrete batch Plant inspection, Post-Installed Drilled Anchor Inspection, Field Welding & High Strength Bolting Inspection, Non Destructive Testing, Various Compression Testing, Composite Prism Testing, Masonry Coring, Soils Compaction Testing and Miscellaneous Engineering Services.

6. PERRIS ELEMENTARY SCHOOL MODERNIZATION (IHCS)- MULTIPLE PROJECTS
Perris, California
Agency
Perris Elementary School District
Contact:
Victor Guzman
Director of Facilities
p.951.657.3118

Project Description:
This project is the modernization/new construction of the previously existing Nan Sanders Elementary School. Initially, the school districts plan was to modernize and rename Nan Sanders however the school did so well they are in need of expansion. Phase two consists of the construction of a second story classroom/administration building as well as modernization and upgrades to the existing library.

Additional Projects for the Perris Elementary School District
- Perris Elementary School Warehouse (1/11/2021)
- Enchanted Hills Elementary School (1/11/2021)
- Orange Vista HS Football Stadium (2/6/2021)
Scope of Work:
We were the awarded geotechnical testing, materials testing and special inspection firm. Our guys have performed our services on approximately 37,400 Square Feet. Some of the services performed are as follows (not limited to): Concrete Inspection, Concrete Batch Plant Inspection, Field and Shop Welding, Shade Structure Inspection, Various Compression Testing, Rebar Bend & Tensile Tests, High Strength Bolt Hardness & Tensile Testing, Soils Compaction Tests (Fine grading over Ex, Trench Backfill, Pavement SG/Base), Soil Classification, Footing Inspection and more.

7. FALLBROOK UNION HIGH SCHOOL DISTRICT
Fallbrook, California
Agency
Fallbrook Union High School District
Contact:
Tina Cullors
Eric Hall & Associates - Construction Manager
p. 714.402.9504
Project Description:
This project is one that we were recently awarded. We will be performing our services during the construction of the modernization of the existing library/media center, cafeteria and amphitheater. The project totals around 15,000 square feet of construction area.
Scope of Work:
We performed the geotechnical, materials testing and inspection scope of services on this project. Some of the specific services we performed were as follows: reinforced masonry inspections, AWS/CWI welding & high-strength bolting, concrete compression tests, rebar inspection, reinforced concrete inspection, soils compaction tests, asphaltic paving inspection, footing inspection and various engineering services.

8. JURUPA UNIFIED SCHOOL DISTRICT
Jurupa, California
Agency
Jurupa Unified School District
Contact:
Robin Griffin
Director of Planning & Development
p. 951.361.6571
Project Description:
This project was the result of anticipated local residential growth. The school recently underwent some previous modernization to the existing classroom wings and decided to make additions to the building with more modernizations. The school was built in 1935 and is just now getting modernizations. The new additions consist of an administration office and an 8-classroom building.
Scope of Work:
We performed the geotechnical, materials testing and inspection scope of services on this project. Some of the specific services we performed were as follows: reinforced masonry inspections, AWS/CWI welding & high-strength bolting, concrete compression tests, rebar inspection, reinforced concrete inspection, soils compaction tests, asphaltic paving inspection, footing inspection and various engineering services.

9. DEL DIOS STEM BUILDING
Escondido, California
Agency
Escondido Union School District
Contact:
Sterling Watson
Construction Manager for AECOM
p. 760.215.2325
Project Description:
The new $14.5M center will be 26,000 square feet, with 14 classrooms for core subjects and four flexscience classrooms, a 10-work-station faculty lounge, restrooms and other support spaces, and associated site improvements including path of travel upgrades and new parking lot. Besides new educational functions and buildings, the site will also will have a CIF-regulation sports complex, including a new track and football field, and baseball and softball fields.
Scope of Work:
CTE is the Geotechnical Engineer of Record and is serving as the DSA Approved Quality Assurance Agency providing all required geotechnical services including footings inspection and certification, soil compaction testing, and asphalt testing and inspection. CTE also provided concrete design, batch plant inspection, and on-site inspection and quality assurance testing and inspection of concrete, masonry, structural steel and fireproofing, and non-destructive examination of welds. Laboratory testing including soil and base material and construction materials including asphaltic concrete, mortar, grout, Portland cement concrete, reinforcing steel, structural steel, high strength bolts, and fireproofing.

10. MAMMOTH MIDDLE SCHOOL
Mammoth Lakes, California
Agency
Mammoth Unified School District
Contact:
Jeff Bozeman
Project Manager
p. 916.715.1044
Project Description:
The mammoth middle school addition consists of adding approximately 2,500 square feet of classroom space to the existing school to serve the growing population of mammoth lakes.
Scope of Work:
UES (NOVA) performed geotechnical investigation for design and construction of the new building. The purpose of our investigation was to evaluate the subsurface geologic conditions including identifying the depth of glacial deposit, and evaluating the shear wave velocity (Vs30) in the upper 30 meters of the site soil. Additionally, we provided geotechnical data and recommendations for the design and construction of the proposed building. The field investigation included two hollow stem auger borings to a depth of 30 feet and one ReMi line to evaluate Vs30 in the upper 30 meters of soil to explore the subsurface conditions of the site. Nova performed seismic and geologic hazard assessment and provided geotechnical data and recommendation for earthwork, frost concerns and foundation design. All investigations were performed to satisfy CGS and DSA requirements.

ADDITIONAL EXPERIENCE - THEATER PERFORMING ARTS CENTER
Chula Vista, California
Agency
Southwestern Community College
Contact:
Robert DePew (No longer with SWC)
Bond Manager
p. 619.482.6593
Project Description:
The 48,000 square-foot faculty will be located next to the new Wellness & Aquatics Complex. The $52 million center will include a 500-seat theater, classrooms and a 151-seat black box theater. The project has achieved LEED Silver certification.
Scope of Work:
CTE was contracted to provide Geotechnical Engineer of Record, compliance inspection services on this project, including soils, shop and field weld inspections, masonry inspection, and reinforced concrete inspection.
**SAGE CREEK PERFORMING ARTS CENTER**

Carlsbad, California

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**Agency**
Carlsbad Unified School District (K-12)

**Contact:**
Derrick Anderson, Construction Manager  
p. 858.634.8180

**Project Description:**
New Construction on an existing school site Sage Creek High School's Performing Arts Center is a 16,500-square-foot facility housing an array of programs, including Choir and Instrumental Music, Musical Theatre, Drama and Dance. The Center also supports lectures and concerts by visiting artists. Guests enter the Center from an arrival plaza leading to a two-story lobby designed to allow room for queuing into the Audience Chamber.

**Scope of Work:**
CTE was the Geotechnical Engineer of Record for the project. As the DSA Approved Quality Assurance Agency; CTE performed geotechnical engineering, testing and inspection of the concrete, masonry, field welding, soils compaction and all other associated materials. CTE performed testing and inspection of the concrete, masonry, field welding, soils compaction and all other associated materials. CTE worked on this project with Kelly Fleming the former Director of Construction.
SECTION 3

Project and Cost Management
PROJECT MANAGEMENT

APPROACH TO WORK

Our success can be attributed to the way we approach and perform our services. No matter how big or small, UES approaches every project with the same measure of attentiveness, dedication, and consideration as the one before it. All scheduling and coordination is instrumental to minimize change orders and ensure well-coordinated and completed work products.

Following the contract award, UES will schedule a kick-off meeting with the necessary personnel for introductions and review of the project schedule. Our team will discuss any subjects critical to the project’s success and develop a budget estimate to be approved by the District before performing any tasks. These meetings allow all parties to have a clear and concise understanding of the service process and applicable guidelines. The key to any successful project is communication, and we provide every means and method of communication including emails, phone calls, faxes, and in-person or digital meetings.

The District will provide UES with a purchase order for the services, after which we will enter the project into our accounting and project management system. Our project manager will make sure that the appropriate resources are available to perform the work and be responsible for ensuring that we maintain our schedule and budget.

At UES, we strategically identify the correct team for each project and utilize a project management system (Trello) that allows us to track the project’s progress and completion date. This software also allows us to share a specific login to track the on-going process with the District. All deadlines will be established ahead of time and be within the parameters of the turnaround times provided within this RFQ. As new information or project details change, the Trello board will provide comprehensive and timely updates to ensure all team members are informed.

By using qualified personnel and close management of all assignments, we can ensure adherence to specified testing procedures and the test results’ accuracy. Also, our engineering and materials staff can provide expert recommendations and assistance to resolve any construction-related material problems which arise during construction. By maintaining the availability of personnel to assist the client, we will provide the direct contact information of our crucial staff.

STAFFING

Close cooperation and clear communication channels will be established between our personnel and the District staff to ensure timely completion
of laboratory and field assignments and to ensure that we respond to critical project schedules. We will submit daily results of testing and inspections to ensure prompt dissemination of information vital to the project’s continued progress and the final acceptance of completed work.

Our laboratory is staffed with full-time technicians to ensure quick test turn-around times, and our laboratory manager will ensure that these test results are accurate. This redundancy of vital equipment and staff enables our team to keep its service standards and test turnaround times to the District.

Our team will provide consistency in our materials testing and inspection services throughout the life of this project. Working on this project will require a high degree of understanding, coordination, and cooperation. Our team is aware of the need for successfully managing multiple, simultaneous assignments, and we have developed an administrative/management system to accurately and efficiently conduct geotechnical and materials testing and inspection services in such a manner.

Field supervisors visit the project site regularly to verify the performance of our team’s field technicians assigned to the project. An annual inspection of our laboratory by certifying agencies (ASSHTO) ensures that laboratory testing services are completed to applicable project specifications (ASTM).

Our project manager will ultimately be responsible for our team providing quality materials testing and inspection services. If the client is dissatisfied with our performance in any way, the project manager will rectify the situation and lead an audit to determine if a modification to our Quality Assurance and Quality Control Plan is required to prevent any re-occurrence. Our team will strive to operate as an efficient, reliable, and results-driven extension-of-staff to the District.

WORKLOAD
Due to the nature of our materials testing and inspection, many of our project assignments are short term in nature, typically ranging from one day to two weeks. As such, we have the ability to rotate field technicians and inspectors to make sure that all of our assignments are being completed on a weekly basis. We pride ourselves in being able to complete assignments on time with the appropriate resources. Based on our current and projected workload, we have the manpower and equipment to increase our current workload volume. We can immediately staff this project on a full-time basis and have staff available for “will call” or intermittent type assignments.

UES further asserts that personnel assigned to this project will come from existing resources and that only experienced and well qualified personnel will be assigned to perform our services. The dedication of the personnel necessary to staff and complete the various tasks on this project will not overload our current technical and management staff capacity.

RESPONSIVENESS
We understand our client’s desire for fast, accurate testing and inspection results and how the execution of these services can dramatically impact both the project schedule and budget. In response, UES has developed proprietary software called FDC (Field Data Collection), which is one of the industry’s most reliable and efficient methods for gathering, processing, and reporting data collected in the field.

With the use of remote devices in the field, the information gathered by the technicians is saved and transmitted to our office where, in conjunction with samples taken from the field, lab tests are performed and recorded. The resulting data is then uploaded to our dispatch and scheduling application where reports are generated and reviewed by a project manager for quality. Once approved, the reports are then sent electronically to the client.

This entire process begins and ends with the client—and fact that every UES employee involved
SCHEDULE DEVELOPMENT

Reasonable schedules will be developed using standard scheduling techniques including a project network with critical path layouts, and milestone planning during development of the project schedules. During performance of the project, real-time comparisons will be made against the planned project schedule to monitor the progress of the project. Variances between the planned versus actual schedule will be closely monitored and investigated to determine if any issues are being encountered.

If issues are encountered, corrective actions will be initiated. When these project cost and/or schedule issues are identified, the contract manager will characterize the extent of the issue and devise contingency plans as appropriate, such as:

- Direct the allocation of additional resources as necessary to accomplish the work in a timely and cost-effective manner
- Analyze the schedule logic for a change in sequence of work elements to maintain milestone dates (i.e., expedite up-coming task schedules)
- Establish new dates for task completions/milestones after consultation with and approval by the District of Newport Beach

These corrective actions will enable UES to meet established performance goals. UES’ network of offices located throughout West Coast allow for rapid mobilization to project locations, minimizing travel time. All management and field personnel have smartphones allowing for frequent updates during critical work phases. Immediate access to laptop PCs also allows for the implementation of last minute changes to the workscope as necessary.

As thorough as this process is, UES never forgets that many of our clients require expedited services due to tight schedules. Weather it is speed-to-market demands or site viability, UES will waste no time in providing the professional services necessary for you to make decisions based on our results.

FIRM WIDE TECHNOLOGY

UES relies upon a comprehensive system of software, both licensed and proprietary, to successfully manage our day-to-day operations and all aspects of a project. At the top level, our company utilizes Microsoft Windows 10 on all PCs in conjunction with Office 365, Sophos Cyber Security, Fortinet Firewall and Ransomware, a secured VPN, and GoToMeeting.

At the center of our operations side lies Deltek Vision. Deltek Vision is an established industry standard and used extensively throughout the A/E/C community. This software serves as our main database capturing every project detail, such as the scope of work, duration, subconsultants used, and primary personnel. It also houses all of our client-base information and allows for detailed report generation. Another important function of Deltek Vision is billing. The book-keeping capabilities of this component are made possible due to the massive amount of captured project and client information. To ensure that all of these systems work seamlessly together, UES has on staff a full-time Application Business Analyst and Software Developer.

FEE SCHEDULE

See page 41 for the requested fee schedule with each classification.
Universal Engineering Sciences - Irvine
2021 Fee Schedule – Prevailing Wages

PROFESSIONAL SERVICES

<table>
<thead>
<tr>
<th>Role</th>
<th>Hourly Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal Engineer</td>
<td>$195</td>
</tr>
<tr>
<td>Registered Geotechnical Engineer/ Registered Engineering Geologist</td>
<td>$175</td>
</tr>
<tr>
<td>Project Manager/Staff Professional</td>
<td>$160</td>
</tr>
<tr>
<td>Project Engineer/ Project Geologist</td>
<td>$160</td>
</tr>
<tr>
<td>Instrumentation Engineer</td>
<td>$190</td>
</tr>
<tr>
<td>Grading Inspector</td>
<td>$125</td>
</tr>
<tr>
<td>Reinforced Concrete Inspector</td>
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<tr>
<td>Masonry Inspector</td>
<td>$125</td>
</tr>
<tr>
<td>Drilled-in-Anchor Inspector</td>
<td>$125</td>
</tr>
<tr>
<td>Welding Inspector/ Fireproofing Inspector</td>
<td>$125</td>
</tr>
<tr>
<td>Methane Inspector</td>
<td>$145</td>
</tr>
<tr>
<td>ACI Technician Inspector</td>
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<tr>
<td>Wood Inspector</td>
<td>$125</td>
</tr>
<tr>
<td>NDT Test (UT, MT, PT)</td>
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</table>

LABORATORY TESTING

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Unit Price</th>
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<tbody>
<tr>
<td><strong>AGGREGATE TESTS</strong></td>
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<tr>
<td>Sieve Analysis, ASTM C135, C117</td>
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<tr>
<td>Specific Gravity &amp; Absorption, Coarse ASTM C127</td>
<td>75</td>
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<tr>
<td>Specific Gravity, Fine, ASTM C128</td>
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<tr>
<td>Unit Weight per cubic foot, ASTM C29</td>
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<tr>
<td>Soundness, ASTM C88</td>
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<td>L.A. Abrasion (Percent Wear 100 &amp; 500 cycles), ASTM C131</td>
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<tr>
<td>L.A. Abrasion (Percent Wear 1000 cycles), ASTM C535</td>
<td>165</td>
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<tr>
<td>Sand Equivalent, ASTM D2419, three trials</td>
<td>75</td>
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<tr>
<td>Organic Impurities, ASTM C40</td>
<td>65</td>
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<tr>
<td>Clay Lumps/Friable Particles, ASTM C142</td>
<td>95</td>
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<tr>
<td>Fractured Faces</td>
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<tr>
<td>Light Weight Particles, ASTM C123</td>
<td>150</td>
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<tr>
<td>Flats and Elongates, D4791</td>
<td>115</td>
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<td>Cleanness Value (up to 1”), CA227</td>
<td>130</td>
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<tr>
<td>Cleanness Value (greater than 1”), CA227</td>
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<td><strong>CONCRETE TESTS</strong></td>
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<tr>
<td>Compression Test, ASTM C39</td>
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<tr>
<td>Core Compression Test, ASTM C42</td>
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<tr>
<td>Splitcrete Core, (coring at hourly rate) each</td>
<td>55</td>
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<tr>
<td>CLSM Test</td>
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<tr>
<td>Flexure Test, 6” x 6” beams, ASTM C78</td>
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<tr>
<td>Modulus of Elasticity – Static, ASTM C469</td>
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<tr>
<td>Length Change (3 bars, 5 readings each, up to 36 days), ASTM C157</td>
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<tr>
<td>Empirically Derived Mix Design</td>
<td>By Quote</td>
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<tr>
<td>Laboratory Trial Batch, ASTM C192</td>
<td>By Quote</td>
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<td>Concrete Sample Pick up</td>
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<td><strong>CONCRETE MASONRY UNITS ASTM C140</strong></td>
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<tr>
<td>Moisture Content as received</td>
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<td>Absorption</td>
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<td>Compression</td>
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<td>Shrinkage, ASTM C426</td>
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<td>Complete ASTM C140</td>
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<tr>
<td><strong>MASONRY PRIMS ASTM C614</strong></td>
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<tr>
<td>Compression Test, grouted prisms</td>
<td>55</td>
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<tr>
<td>Oversize Sample Pick up</td>
<td>25</td>
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<tr>
<td><strong>MORTAR &amp; GROUT</strong></td>
<td></td>
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<tr>
<td>Compression Test</td>
<td></td>
</tr>
<tr>
<td>2” x 4” Mortar Cylinder</td>
<td>25</td>
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<tr>
<td>3” x 6” Grount Prisms</td>
<td>35</td>
</tr>
<tr>
<td>4” x 8” Grount Cylinder</td>
<td>35</td>
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<tr>
<td>2” Cubes, ASTM C109</td>
<td>25</td>
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<tr>
<td>Mortar or Grout Mix Designs</td>
<td>By Quote</td>
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<tr>
<td><strong>SOIL TESTS</strong></td>
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</tr>
<tr>
<td>Moisture, ASTM D2216</td>
<td>$20</td>
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<tr>
<td>Moisture/Density, undisturbed ring sample</td>
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<td>Liquid &amp; Plastic Limit, ASTM D4318</td>
<td>100</td>
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<tr>
<td>Sieve Analysis, ASTM C136</td>
<td>100</td>
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<tr>
<td>% Finer than #200, ASTM D1140</td>
<td>55</td>
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<td>Hydrometer Analysis, ASTM D422, incl. sieve, sp. g.</td>
<td>275</td>
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<tr>
<td>Consolidation, ASTM D2435</td>
<td>90</td>
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<tr>
<td>Time Consolidation, per load increment</td>
<td>90</td>
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<tr>
<td>Expansion (60 pcf)</td>
<td>120</td>
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<tr>
<td>Direct Shear, (3-point, remolded)</td>
<td>275</td>
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<tr>
<td>Unconfined Compression, ASTM D2168</td>
<td>95</td>
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<tr>
<td>Moisture/Density Curve, (Modified Proctor), ASTM D1557</td>
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<tr>
<td>Moisture/Density Curve, (Standard Proctor), ASTM D698</td>
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<tr>
<td>Moisture/Density Curve Check Point</td>
<td>90</td>
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<tr>
<td>Specific Gravity, ASTM D654</td>
<td>90</td>
</tr>
<tr>
<td>Resistivity of Soil</td>
<td>60</td>
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<tr>
<td>Permeability</td>
<td>By Quote</td>
</tr>
<tr>
<td>R-Value, ASTM D2844</td>
<td>260</td>
</tr>
<tr>
<td>CBR, ASTM D1883, including M/D curve, 3 points</td>
<td>420</td>
</tr>
<tr>
<td>Soil/Cement, Mix Designs</td>
<td>By Quote</td>
</tr>
<tr>
<td>Triaxial and Unconfined Compression Test</td>
<td>By Quote</td>
</tr>
<tr>
<td><strong>CHEMICAL TESTING</strong></td>
<td></td>
</tr>
<tr>
<td>Sodium, Solubility, Chloride, &amp; Sulfate Content</td>
<td>60 ea.</td>
</tr>
<tr>
<td>pH, ASTM D2978</td>
<td>45</td>
</tr>
<tr>
<td><strong>ASPHALTIC CONCRETE</strong></td>
<td></td>
</tr>
<tr>
<td>Stability, Flow, and Unit Weight, Marshall, Voids</td>
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<tr>
<td>ASTM D1559, ASTM 2726, Set of 3 specimens/sample</td>
<td>175</td>
</tr>
<tr>
<td>Measured Maximum Specific Gravity of Mix (Rice Method) ASTM D2041</td>
<td>100</td>
</tr>
<tr>
<td>Extraction of Asphalt and Gradation</td>
<td>200</td>
</tr>
<tr>
<td>Extraction, % Asphalt only, ASTM D2172 (Method B) or Calif. 310, including ash</td>
<td>110</td>
</tr>
<tr>
<td>Ignition Calibration</td>
<td>550</td>
</tr>
<tr>
<td>Ignition and Gradation</td>
<td>200</td>
</tr>
<tr>
<td>Specific Gravity, Core or Specimen, ASTM D2726</td>
<td>52</td>
</tr>
<tr>
<td>Specific Gravity, Core or Specimen, (Coated)</td>
<td>73</td>
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<tr>
<td>Specific Gravity, Core or Specimen, (Corelok)</td>
<td>73</td>
</tr>
<tr>
<td>Tensile Strength Ratio (TSR), AASHTO T283</td>
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</tr>
<tr>
<td>Complete Asphalt Concrete Mix Design (Hveem or Marshall)</td>
<td>By Quote</td>
</tr>
<tr>
<td><strong>MISCELLANEOUS TESTS</strong></td>
<td></td>
</tr>
<tr>
<td>Fireproofing - Oven Dry Density</td>
<td>50</td>
</tr>
<tr>
<td>Tensile Strength of Rebar (per bar)</td>
<td>70</td>
</tr>
<tr>
<td>Modulus of Elasticity</td>
<td>125</td>
</tr>
</tbody>
</table>

DIRECT CHARGES

- Per Diem and Lodging, out of town project ........................................... $75/day + lodging + travel
- Automobile or Pick-up, out of town project .............................................. $0.55/mile or $135/week minimum
- 4-Wheel Drive Vehicle, out of town project ............................................. $0.74/mile or $200/week minimum
- Direct project expenses, i.e. special equipment rental, commercial travel, bulk reproduction, specialized personal protective equipment, etc $0.5% cost + 15%
- Provide on-site field laboratory facilities and test equipment Available on Request

Universal Engineering Sciences - Irvine
SECTION 4

Sub Consultants
SUBCONSULTANTS
UES will not require sub-consultants for the District’s projects. All services can be handled in-house.
SECTION 5

References
ATTACHMENT E

PROJECT REFERENCE FORM

Provide information for the past five (5) years for contracts that your firm has completed, or has in progress, which most closely represents the services requested in this RFQ. Provide the following information:

1. Project title and location
2. Name, address, and phone number of contact person
3. Nature of firm’s responsibility
4. Type of contract (performance, direct cost, etc.)
5. Contract amounts
6. Start Date
7. Current status

For one of the above projects, provide a cost breakdown of the following project components: technical analysis, design and implementation, project management, monitoring, training, educational programs, maintenance (if any), and budgeting.

The next page contains the reference information requested in section 3.5 “References” of the RFQ.
1. ESTANCIA HIGH SCHOOL PAVING REPLACEMENT FOR NEWPORT-MESA UNIFIED SCHOOL DISTRICT

Costa Mesa, California

Contact:
Lance Bidnick, Administrative Director II, Maintenance and Operations
p. 714.424.7573
e. lbidnick@nmusd.us

Scope of Work:
UES performed geotechnical investigation, laboratory testing, and engineering analysis for the design proposed pavement section.

2. MAMMOTH MIDDLE SCHOOL AND HIGH SCHOOL PROJECTS WITH PREMIER MANAGEMENT GROUP

Mammoth Lakes, California

Contact:
Jeff Bozeman, Project Manager
p. 916.715.1044
e. jbozeman@pmgcm.com

Scope of Work:
UES (NOVA) performed geotechnical investigation for design and construction of the new building.

3. SAN DIEGO UNIFIED SCHOOL DISTRICT

San Diego, California

Contact:
Mark Stapleton
Construction Manager/Supervisor
p. 619.358.3221

Scope of Work:
UES (CTE) currently hold an on-call contract with San Diego Unified School District, a District in which represents a little over 200 schools. We were the awarded geotechnical, materials testing and special inspection firm completing all services within that scope.
SECTION 6

Legal Issues
PENDING LITIGATION

UES is not currently, nor have been in the last ten years, named in any law suit alleging the negligent performance of professional services by Universal Engineering Sciences. UES diligently reports any potential liability to their insurance carrier to ensure coverage in the event an unlikely event a claim becomes active. We are not aware of any potential claim that would significantly affect our professional or general liability insurance coverage.

A completed Attachment D can be found in the next section of this qualifications package.
SECTION 7

Other Forms
**NEWPORT MESA UNIFIED SCHOOL DISTRICT**  
**SPECIAL INSPECTION SERVICES**  
**RFQ EVALUATION**

**Evaluation of Firms:** All responses will be scored using this evaluation sheet. A minimum score of 80% is required to qualify for the 2nd round of evaluation which includes review by a panel. Up to 10 additional points may be awarded in the second round based on subjective determination of the Firm’s ability to carry out the required work. NMUSD will select the top-rated firms to be awarded the contracts for these services.

**Instructions:** Fill-in a response for each question in Sections 1-4 below. Each correlates to a required element in the RFQ Response Format.

**Firm:**  
Nova Geotechnical and Inspection Services -  
So Cal dba Universal Engineering Sciences

<table>
<thead>
<tr>
<th>1. Location/Accessibility</th>
<th>Write in:</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Firm's location - Write in city and county of headquarters or local office, whichever is closest to the District</td>
<td>Irvine, CA - Orange County</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Identify the Firm's number of years' experience in providing services for K-12</td>
<td>Universal Engineering Sciences has 56 years of experience</td>
<td>5</td>
</tr>
<tr>
<td>b. Project listing - Identify the number of K-12 projects the Firm has worked on within last 3 years.</td>
<td>270+</td>
<td>5</td>
</tr>
<tr>
<td>c. Project listing - Identify the number of Theater projects the Firm has worked on within last 5 years.</td>
<td>21</td>
<td>5</td>
</tr>
<tr>
<td>d. Industry experience - Circle the type of projects the Project Team has worked on within the last 3 years (circle all that apply)</td>
<td>K-12, Community College, Charter/Private School, Non-School District, Other Project Types</td>
<td>5</td>
</tr>
<tr>
<td>e. Identify the Firm’s number of employees</td>
<td>2500+</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Identify the number allegations against the firm or any employee for any violations of law</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>b. Identify the number of settlements or judgments involving such actions within the last five (5) years</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>a. Identify the number of client references from a K-12 school district included in the Response (0-3)</td>
<td>2</td>
<td>5</td>
</tr>
</tbody>
</table>

_I hereby certify that the above information is true and correct to the best of my knowledge._  
_By signing below, I further acknowledge that should any of the information I provide be found to be false, the Firm's Response shall be considered nonresponsive and ineligible for consideration._

Rouzbeh Afshar  
Printed Name  
May 19, 2021  
Signature  
Date
ATTACHMENT B

CERTIFICATION – REQUEST FOR QUALIFICATIONS

I certify that I have read and received a complete set of documents regarding the attached Request for Qualifications (RFQ) # 111-21 – SPECIAL INSPECTION SERVICES and the instructions for submitting an RFQ. I further certify that I must submit three (3) proposal copies, plus a complete copy on flash drive, of the firm’s Proposal in response to this request and that I am authorized to commit the firm to the proposal submitted.

_______________________________ _______________________
Signature                  
Geotechnical Engineer    
and Department Manager

_______________________________ _______________________
Title
16 Technology Dr., Suite 139
Irvine, CA 92618

_______________________________ _______________________
Address
949.537.3222

_______________________________ _______________________
Telephone
May 19, 2021

_______________________________ _______________________
Date

If you are bidding as a corporation, please provide your corporate seal here:

Rouzbeh Afshar

Typed or Printed Name
Nova Geotechnical and Inspection Services - So Cal dba Universal Engineering Sciences

_______________________________ _______________________
Company
16 Technology Dr., Suite 139
Irvine, CA 92618

_______________________________ _______________________
Address
702.873.2199

_______________________________
Fax
ATTACHMENT C

STATEMENT OF EXPERIENCE AND FINANCIAL CONDITION

Company Name: Nova Geotechnical and Inspection Services - So Cal dba Universal Engineering Sciences

(Check One): X Corporation _____ Partnership _____ Sole Proprietorship

Address: 16 Technology Dr., Suite 139
Irvine, CA 92618

Telephone/FAX#: 949.537.3222 / FAX

Date and State of Formation/Incorporation: July 2019

Is the company authorized to do business in California? Yes

Basis of Authorization: X California Corporation ___ California Business License
___ California Engineering License ___ Other (specify)

Identify the California office to be used for this contract if organization is located/headquartered outside of California:

Address: 16 Technology Dr., Suite 139
Irvine, CA 92618

FINANCIAL INFORMATION

State the company’s California and total revenues for 2017, 2018, 2019:

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021 YTD</th>
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<tbody>
<tr>
<td>California:</td>
<td>$0</td>
<td>$0</td>
<td>$60,000</td>
<td>$800,000</td>
<td>$800,000</td>
</tr>
<tr>
<td>Total:</td>
<td>$0</td>
<td>$0</td>
<td>$60,000</td>
<td>$800,000</td>
<td>$800,000</td>
</tr>
</tbody>
</table>

Identify the largest project, in dollars, which your company has initiated or completed within the past five (5) years:

Vans Headquarters Expansion - Contract Value: $600,000
ATTACHMENT D

ANSWER THE FOLLOWING QUESTIONS

1. Is the company or its owners connected with other companies as a subsidiary, parent, affiliate, or holding company?  X Yes  ___No If yes, explain on a separate, signed sheet. Explanations can be found on the next page.

2. Does the company have an ongoing relationship or affiliation with an equipment manufacturer? ___Yes  X No If yes, explain on a separate, signed sheet.

3. Has the company (or any owner) ever defaulted on a contract forcing a surety to suffer a loss? ___Yes  X No If yes, explain on a separate, signed sheet.

4. In the past five (5) years, has the company had any project with disputed amounts more than $50,000 or a project which was terminated by the owner, owner’s representative or other contracting party and which required completion by another party? ___Yes  X No If yes, explain on a separate, signed sheet. State the project name, location, owner/contact person, telephone number, contract value, disputed amount, date and reason for termination/dispute.

5. Has the company, an affiliate company, or any owner ever declared bankruptcy or been in receivership? ___Yes  X No If yes, explain on a separate, signed sheet.

6. Has the company ever had an arbitration on contracts in the past five (5) years? ___Yes  X No If yes, explain on a separate, signed sheet. State the project name, location, owner/contact person, telephone number, contract value, disputed amount, a brief description and final resolution.

7. Does the company have any outstanding liens or stop notices for labor and/or materials filed against any contracts which have been done or are being done by the company? ___Yes  X No If yes, explain on a separate, signed sheet. State the project name, location, owner/contact person, telephone number, amount of dispute, and brief description of the situation.

THE UNDERSIGNED DECLARES UNDER PENALTY OF PERJURY THAT ALL OF THE INFORMATION SUBMITTED WITH THIS PROPOSAL IS TRUE AND CORRECT.

SIGNATURE: ______________________________________________
NAME: Rouzbeh Afshar
TITLE: Geotechnical Engineer and Department Manager
Parent Corporation Details
Obsidian Group, Inc. d.b.a. Universal Engineering Sciences

Subsidiary Information
Nova Geotechnical and Inspection Services – So Cal d.b.a Universal Engineering Sciences

Fictitious Business Name Document
ATTACHMENT F

NEWPORT MESA UNIFIED SCHOOL DISTRICT

REQUEST FOR PROPOSALS AND STATEMENT OF QUALIFICATIONS FOR SPECIAL INSPECTION SERVICES

STATEMENT OF NON-CONFLICT OF INTEREST

The undersigned, on behalf of the consulting firm set forth below (the “Consultant”), does hereby certify and warrant that, if selected, the Consultant while performing the consulting services required by the Request for Qualification, shall do so as an independent contractor and not as an officer, agent or employee of the Newport Mesa Unified School District (“the District”). The undersigned further certifies and warrants that: (1) no officer or agent of the Consultant has been an employee, officer or agent of the District within the past two (2) years; (2) the Consultant has not been a source of income to pay any employee or officer of the District within the past twelve (12) months; (3) no officer, employee or agent of the District has exercised any executive, supervisory or other similar functions in connection with the Consultant Agreement or shall become directly or indirectly interested financially in the Consultant Agreement; and (4) the Consultant shall receive no compensation and shall repay the District for any compensation received by the Consultant under the Consultant Agreement should the Consultant aid, abet or knowingly participate in violation of this statement.

Signature ______________________________
Printed Name ______________________________
Title ______________________________
Date ______________________________

Rouzbeh Afshar
Geotechnical Engineer
and Department Manager
May 19, 2021
ATTACHMENT G

FIRM PROPOSAL / OFFER FORM

This Proposal/Offer Form must be duly executed and submitted with any proposal/offer to NMUSD.

The Offeror hereby agrees that its proposal/offer is subject to all RFQ # 111-21 provisions, terms and conditions, attachments, exhibits, amendments and other applicable materials which are attached or incorporated by reference. Offeror hereby agrees to promptly enter into an agreement in substantial accordance with such RFQ provisions, terms and conditions, and secure a performance bond within five (5) days of the Districts intent to award the contract.

The Offeror hereby agrees that its attached proposal/offer of which this is part, is a firm and irrevocable offer and valid for acceptance by NMUSD for the period sixty (60) days after closing. The Offeror hereby agrees that if its proposal/offer is accepted by NMUSD that it shall provide all of the services in accordance with the RFQ, as it may be amended.

Name of Person Duly Authorized to Execute this Proposal/Offer: Rouzbeh Afshar

Duly Authorized Signature: Rouzbeh Afshar

Title: Geotechnical Engineer and Department Manager

Date of this Proposal/Offer: May 19, 2021

Offeror Name: Nova Geotechnical and Inspection Services - So Cal dba Universal Engineering Sciences

Offeror Address: 16 Technology Dr., Suite 139

Irvine, CA 92618

Offeror Telephone: 949.537.3222

Offeror Email: rafshar@universalengineeringcom
NEWPORT MESA UNIFIED SCHOOL DISTRICT  
2985 Bear St., Bldg. A  
Costa Mesa, California 92626  
(714) 424-5063  

DSA Inspection Services  
RFQ: # 124-21  

NONCOLLUSION DECLARATION  
Public Contract Code § 7106  

TO BE EXECUTED BY SUBMITTER AND SUBMITTED WITH RFQ  

The undersigned declares:  

I am the [PRINT YOUR TITLE]  
of [PRINT FIRM NAME],  
The party making the foregoing Contract.  

The RFQ is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The RFQ is genuine and not collusive or sham. The submitter has not directly or indirectly induced or solicited any other submitter to put in a false or sham RFQ. The submitter has not directly or indirectly colluded, conspired, connived, or agreed with any submitter or anyone else to put in a sham RFQ, or to refrain from submitting. The submitter has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the RFQ price of the submitter or any other submitter, or to fix any overhead, profit, or cost element of the RFQ price, or of that of any other submitter. All statements contained in the RFQ are true. The submitter has not, directly or indirectly, submitted his or her RFQ price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, RFQ depository, or to any member or agent thereof, to effectuate a collusive or sham RFQ, and has not paid, and will not pay, any person or entity for such purpose.  

Any person executing this declaration on behalf of a submitter that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the submitter.
I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on the following date:

Date: May 19, 2021

Proper Name of Submitter: Nova Geotechnical and Inspection Services - So Cal
dba Universal Engineering Sciences

City, State: Irvine, CA 92618

Signature: Rouzbeh Afshar

Print Name: Rouzbeh Afshar

Title: Geotechnical Engineer and Department Manager