Geotechnical
Environmental
Hydrogeology
Material Testing
Construction Inspection

May 19, 2021

Mr. Jonathan Geiszler
Director of Purchasing and Warehouse
Newport Mesa Unified School District
2985 Bear Street, Building A
Costa Mesa, California 92626

Re: Request for Qualifications, Special Project Inspection Services, Newport Mesa Unified School District, RFQ-111-21.

Dear Mr. Geiszler,

TGR Geotechnical, Inc. (TGR), a small business is pleased to submit qualifications for Special Project inspection services along with Geotechnical Engineering Services for Newport Mesa Unified School District. TGR is very familiar with the proposed scope of work for the subject RFQ and have successfully completed similar scope for numerous K-12 school districts since 2002.

All geotechnical inspection and testing services will be performed by TGR Geotechnical (LEA 204). All special inspection shall be performed by our sister firm Reliant Testing Engineers (RTE LEA 214) which has common ownership and insurance.

Since established in 2002 TGR has provided special project inspection services and geotechnical engineering services to the following school districts:

- Los Alamitos USD
- Placentia YL SD
- Santa Ana USD
- Glendale USD
- LA County Office of Ed
- Anaheim USD
- Downey USD
- Culver City USD
- Azusa USD
- Antelope Valley USD
- Saddleback Valley USD
- Whittier USD
- Murrieta Valley USD
- Chino USD
- Mountain View USD
- West Covina USD
- Los Angeles USD
- ABC School District
- Glendora USD
- Huntington Beach USD
- Fullerton USD
- Los Nietos SD
- Panama-Buena Vista
- Menifee USD

TGR/RTE is a team player and service clients in a very personal way, caring for their needs and looking for solutions that will ensure that the project stays on schedule and budget and that every taxpayer dollar is spent wisely. TGR's project management approach provides you with the tools to control Material Testing and Special Inspection costs and limit any potential cost overruns.

We look forward to working as part of your team. We are confident our extensive experience and personalized service will be an asset to the district. TGR is very appreciative of this opportunity to submit our qualifications for the subject RFQ. This irrevocable proposal offer is valid for 90 days. TGR acknowledges receipt of all RFQ Addendums.

Sincerely,

TGR GEOTECHNICAL, INC.

Dr. Sanjay Govil, P.E., G.E 2382.
President, Principal Geotechnical Engineer

Distribution: (3) Addressee

TGR GEOTECHNICAL
DBE & 8(a) firm
3037 S. HARBOR BLVD
SANTA ANA, CA 92704
P 714.641.7189 F 714.641.7190
www.tgrgeotech.com

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TGR GEOTECHNICAL
DBE & 8(a) firm
3037 S. HARBOR BLVD
SANTA ANA, CA 92704
P 714.641.7189 F 714.641.7190
www.tgrgeotech.com

BUSINESS PROFILE

TGR Geotechnical along with sister firm Reliant Testing Engineers (RTE) is a multi-disciplinary engineering firm that was established in 2002 and 2004, respectively. We provide expertise in geotechnical engineering, geological studies, earthquake engineering, geotechnical instrumentation, vibration studies, and geotechnical observation & testing, material testing and special inspection during construction. TGR's project expertise includes public works, water & sanitation districts, parks & recreation facilities, educational facilities, high-rise, retail, commercial/industrial, healthcare, academic, institutional and residential.

Principal Dr. Sanjay Govil, PE, GE heads the firms. Dr. Govil has over thirty years of teaching, research and consulting experience in a wide variety of complex projects involving geotechnical and geologic investigation, shallow and deep foundations, earth retaining structures, ground improvement, temporary shoring, slope stability and landslide investigation, earthquake engineering, geotechnical instrumentation, forensic studies, geotechnical observation, special inspection and material testing.

TGR has a commitment to provide geotechnical and geological consulting, construction inspection and materials testing services with a high degree of professional excellence and proficiency. We strive to offer our clients individual attention and provide innovative solutions at a competitive cost from our headquarters located in Santa Ana, Orange County. We have a staff that is technically one of the finest and an in-house laboratory that is state-of-the-art.

Our Testing Laboratory are certified by the City of Los Angeles, AMRL, DSA. We also participate in the AMRL reference sample program.

TGR Geotechnical (Prime)
Federal Tax ID: 33-0992320
LEA No.: 204
No of Years in Business: 19
Services Provided: Geotechnical Investigation and Testing
Annual Revenue: 1.8M
No of Employees (company-wide): 14
No of Employees in Southern California Counties: 14

Reliant Testing Engineers (Sister Firm/Sub)
Federal Tax ID: 20-0879770
LEA No.: 214
No of Years in Business: 17
Services Provided: Special Inspection and Material Testing
Annual Revenue: 2.8M
No of Employees (company-wide): 35
No of Employees in Southern California Counties: 35

TGR as well as sister firm RTE are located within the same building with common ownership. Both TGR and RTE are under the same professional liability insurance. RTE was established by Sanjay Govil (sole owner of TGR) in 2004 in equal partnership with Ms. Denise DeGroff to provide full range of services to clients.

TGR will be providing all work related to geotechnical studies and geotechnical observation and testing and RTE will be providing all special inspection and material testing services. However, all services will be managed by Dr. Govil. The client interaction and coordination will be seamless.

The following table provides the duties and the tasks to be performed by TGR's proposed key personnel and field staff involved in this contract. Complete resumes of proposed key personnel are enclosed.

NAME	PROJECT ROLE	DUTIES	Years with Firm	Years K-12 Experience
Dr. Sanjay Govil, PE, GE. (Principal)	Project Manager and Principal Engineer	Staffing and overseeing of field inspectors; budget control; Geotechnical/Soil Design Engineering	19	25
Mr. Ed Burrows, PG, CEG, CHG	Principal Geologist	Geologic Hazard Studies	10	20
Mr. Robert Jones	Project Manager, Special Inspection	Overseeing special inspection of structural components and related materials testing	17	17
Mr. Prakash Khanal	Senior Staff Engineer	Supervision of Soil Inspection and Testing during excavation and site work.	3	3
Mr. Robert Aguelar	Staff Engineer	Soils Laboratory Supervisor	3	3
Mr. Cherian Hanley	Field Operations Manager	Soil Inspection and Testing	4	4
Mr. Alex Magbojos	Senior Soil Technician	Soil Inspection and Testing	18	18
Mr. Greg Antista	Special Inspector	Multi Carded Special Inspection	10	15
Mr. Joe Ballesteros	Special Inspector	Multi Carded Special Inspection	10	15
Mr. Kurt Caprine	Special Inspector	Multi Carded Special Inspection	15	19
Mr. Daniel Ellenwood	UT Level II Manager	NDT Level II	17	17

DR. SANJAY GOVIL, RCE, GE
Principal Engineer

EDUCATION

- Ph.D., Civil Engineering, Arizona State University
- M.Eng, Geotechnical Eng, Asian Institute of Technology
- B.Tech, Civil Engineering, Indian Institute of Technology

REGISTRATION

- Registered Geotechnical Engineer, CA, GE 2382
- Registered Professional Civil Engineer, CA, RCE 51523
- Registered Professional Engineer (Civil), AZ, No. 36496
- Registered Professional Civil Engineer, NV, CE 13834

PROFESSIONAL AFFILIATIONS

- Member, American Society of Civil Engineers
- Member, International Society of Soil Mechanics and Foundation Engineering
- Life Member, Indian Geotechnical Society
- Member, Earthquake Engineering Research Center
- Member American Concrete Institute

RELEVANT PROJECTS

- Modernization Projects, Downey USD, CA
- Athletic Field and Modernization, Azusa USD, CA
- Modernization Projects, Whittier City SD, CA
- L.A. High School of Arts in Cal State LA, CA
- Science Building, Culver City SD, CA
- Modernization & Underground Projects, Los Nietos USD, CA
- Rivera Park, City of Pico Rivera, CA
- Bristow Park Rehabilitation, City of Commerce, CA
- Slope Repair for City of Monrovia, CA
- Artesia Public Yard Building, Artesia, CA
- On-Call Geotechnical Services, City of Los Angeles, CA
- On-Call Geotechnical Services, LADWP, CA
- Various Street Rehabilitation, City of Diamond Bar, CA.
- Alhambra Public Library, Alhambra, CA.
- Monrovia Public Library, Monrovia, CA, CA.
- Ontario Airport Taxiway 'N' Expansion, Ontario, CA.
- Street Rehabilitation, City of Torrance, CA
- Antelope Valley Courthouse, Lancaster, CA
- Runway 18-20 Reconstruction, Long Beach, CA.
- Van Nuys Courthouse Repair, Van Nuys, CA
- Replacement Hospital, Kaiser, Panorama City, CA
- South Bay Replacement Hospital, Kaiser, Harbor City, CA
- Sierra Vista Hospital, Sacramento, CA
- Canyon Ridge Hospital, Chino, CA
- White Memorial Hospital, Los Angeles, CA
- Several Parking Structures, Kaiser Hospital Campus, CA.
- Chapman University Library, Orange, CA
- Segestrom High School, Santa Ana, CA
- Antelope Valley High School, Lancaster, CA
- Yorba Linda High School, Yorba Linda, CA
- Soka University of America, Aliso Viejo, CA.
- J. Paul Getty Museum, Brentwood, California.
- Medical Office Campus, Kaiser, Ventura, CA.
- On-call Services, City of Pico Rivera, CA.
- Vibration Studies/Monitoring, I405 Widening, LA, CA.
- Various Street Rehabilitations, La Habra Heights, CA
- Various Street Rehabilitation Projects, Irwindale, CA

PROFESSIONAL EXPERIENCE

Dr. Govil has over thirty-five years of teaching, research and consulting experience in geotechnical and material engineering. Dr. Govil has managed and participated in various types of engineering projects in Southern California including geotechnical investigation and materials inspection for office, industrial and shopping centers, airports, water treatment plants, schools, hospitals, planned communities, mass-graded flat-land and hillside residential projects, microwave towers, road and pavement design, distressed properties, public works and recreational facilities.

Dr. Govil has extensive experience in engineering analysis of collapsible soils, expansive soils and soft clays. He has been engaged in static and seismic slope stability of cut, fill and distressed slopes and stabilization of slopes and landslides using buttresses, soil nailing, soil anchors and rock bolting. His experience also includes design of shallow, deep and machine foundations, conventional and segmental retaining walls, tieback walls, road and railroad bridge foundations and geotechnical instrumentation and monitoring and material testing. Dr. Govil has been involved in ground improvement studies using wick drains, pre-loading, jet grouting, deep soil mix columns, stone columns and pressure grouting. Dr. Govil has experience in seismic risk analysis, site specific response spectra, deformation analysis and liquefaction studies. Dr. Govil has also worked as an expert on several projects involving construction defects.

GEOTECHNICAL INSTRUMENTATION

Dr. Govil has over 20 years of experience in installation and monitoring of inclinometers, tilt meters, multiple borehole extensometers and strain gauges. The inclinometers ranged in depths from 80 to as much as 130 feet deep. The frequency of monitoring was as much as twice daily for a period of up to 5 months. Other geotechnical instrumentation includes installation and monitoring of groundwater monitoring wells, deep and shallow settlement monuments for numerous projects across Southern California. Dr. Govil is also experienced in Gamma-Gamma Logging & Cross hole sonic logging of CIDH piles.

PUBLICATIONS

"*Post-Earthquake Shear Strength of Soils*," by Sanjay Govil and William N. Houston, First International Conference on Earthquake Geotechnical Engineering, Tokyo, 1995.

"*Simulation of Blast Pressure on Flexible Panel*," by A. C. Singhal, D. Larson, S. Govil and V. Karmakar, Journal of Structural Engineering, ASCE, Vol. 120, No. 7, July 1994.

"*Damage Reduction With Controlled Seismic Pounding*," by Sanjay Govil and Avinash C. Singhal, Proceedings, Fifth International Conference on Soil Dynamics and Earthquake Engineering, Karlsruhe, Germany, September 1991.

"*A Numerical Model for Buried Pipeline Undergoing Permanent Displacement*," by Sanjay Govil, 9th National Conference in Civil Engineering, Orlando, FL, October 1991.

"*Characterization of Dynamic Shear Strength of Soils and Seismic Slope Stability*," by Sanjay Govil, Ph.D. Thesis, Arizona State University, Tempe, 1991.

"*Behavior of Buried Pipelines Undergoing Permanent Ground Displacement*," by Sanjay Govil, M.Eng Thesis, Asian Institute of Technology, Bangkok, Thailand, 1987.

EDWARD BURROWS, PG, CEG, CHG
Principal Geologist

EDUCATION

- M.S. Geology, California State University Los Angeles
- B.S., Geology, Oklahoma State University

REGISTRATION

- Registered Professional Geologist, CA, PG 5622
- Certified Engineering Geologist, CA, CEG 1750
- Certified Hydrogeologist, CA, HG 402
- CFR 1910.120 OSHA 40-Hour Training
- CFR 1910.120 OSHA 8-Hour Refresher Training

PROFESSIONAL AFFILIATIONS

- Association of Engineering Geologists
- American Institute of Professional Geologists
- Geological Society of America
- South Coast Geological Society
- American Association of Petroleum Geologists
- Los Angeles Basin Geological Society
- Building Industry Association
- Home Builders Council

RELEVANT PROJECTS

Commercial/Industrial

- SCLA Commercial/Industrial Development, Victorville, CA
- DTCW Industrial Business Park, Carson, CA
- Watson Industrial Park, Chino, CA
- Central Park West, Irvine, CA
- Kia Headquarters, Irvine, CA
- Centra Pointe, San Juan Capistrano, CA

Institutional

- Culinary Arts and Economic Development Building, Long Beach City College, Long Beach, CA
- West LA College, Culver City, CA
- Central Region Elementary School #22, Playa Vista, CA
- Valley Region Elementary School #12, North Hills, CA
- Glassell Park Early Education Center, Los Angeles, CA
- Central Region Early Education Center #2, Los Angeles, CA
- David Starr Jordan High School, Los Angeles, CA
- Soka University of America, Aliso Viejo, CA.

Master-Planned Community

- Heritage Fields Development, Irvine, CA.
- Aubry at Alamitos Ridge, Long Beach, CA
- Stevenson Ranch Development, Valencia, CA
- Mountain Park Development, Anaheim, CA
- East Orange Development, Orange, CA
- La Vina Development, Alta Vista, CA
- Columbus Grove And Columbus Square, Irvine/Tustin, CA
- Coto de Caza Development, Orange County, CA
- Desmond Tower Residential High Rise, Los Angeles, CA
- Eagle Glen Development, Corona, CA
- The Retreat Development, Riverside County, CANumerous Residential Developments, Yorba Linda, CA

Municipal Infrastructure

- Forth District Appellate Court, Santa Ana, CA
- Westminster Police Station, Westminster, CA.
- Oasis Senior Center, Newport Beach, CA.
- Newport Beach Civic Center and Park, Newport Beach, CA.
- Sunset Ridge Park, Newport Beach, CA.
- Buena Park Police Station, Buena Park, CA
- Community Center, Cypress, CA
- Orange County Marine Institute Facility, Dana Point, CA.
- Dana Point Harbor, Dana Point, CA

Transportation

- I-405 and Laguna Canyon Road Overcrossing, Irvine, CA.
- Mountain Park Overcrossing, Anaheim, CA
- Irvine Guideway, Irvine, CA

Water Infrastructure/Water Resources

- West Village Reservoir (Zone 1320), Anaheim, CA
- Canyon Village Reservoir (Zone 900), Anaheim, CA
- Quarry Village Reservoir, Anaheim, CA
- Nohl Canyon Reservoir, Anaheim, CA
- Rawlings Reservoir, Tustin, CA
- Coyote Water Well No. 3, Fullerton, CA
- Ground Water Basin Management Study, Coto de Caza and the Canada Gobernadora, CA
- Dominguez Gap Wetlands, Long Beach, CA

Environmental

- Numerous Phase I and II Environmental Site Assessments – Los Angeles, Orange, San Bernardino and Riverside Counties

PROFESSIONAL EXPERIENCE

Mr. Burrows has over twenty five years of professional experience , specializing in geologic and environmental investigations and construction observation. He has worked on or managed a wide range of projects including commercial/industrial, institutional, and master planned community developments as well as municipal infrastructure, transportation, water infrastructure, water resources, mining operations and environmental.

Mr. Burrows has responsibility for and maintains administrative and technical management of projects and directs and supervises the activities of staff toward timely performance and compliance with project requirements. He directs trhe work of engineers, geologists and technicians in the collection of soil engineering data, performance of calculations and analysis and in the preparation of technical reports.

PUBLICATIONS

"Ground Water Basin Management Study of the Canada Gobernadora, Orange County, California," by Edward Louis Burrows, Master of Science Thesis, California State University, Los Angeles, 1995.

Reliant
TESTING ENGINEERS

Robert Jones
Laboratory Supervisor

EDUCATION

- Long Beach City College - AA

CERTIFICATES

- ACI strength testing Grade 1
- ACI Field Testing Grade 1
- Cal Trans Concrete
- Nuclear Density and Moisture Operation Certificate

PROFESSIONAL EXPERIENCE

- Laboratory/Field Soils Testing
- Field Observation and Testing of sub grade preparation and lay down of aggregate base
- Observation and testing of utility and storm drain trench backfill
- Pull Testing Technician
- Sr. Laboratory Technician
- Laboratory Manager
- Laboratory Supervisor
- Dispatcher
- Concrete Quality Control for:

  Griffiths MS modernization
  Sussman MS modernization
  Los Alamitos HS Aquatic Center
  Amazon Distribution Center, Beaumont
  Wolverine Distribution Center, Beaumont
  Lot 111 Irvine Spectrum twin 14 story towers
  Lot 111 Irvine Spectrum 700,000 s.f. PT Garage
  Pelican Hill Resort Villas
  Pelican Hill Resort Hotel Guest Suites
  Pelican Hill Resort Club House
  Various School projects in Southern California

Prakash Khanal, E.I.T.

Senior Staff Engineer

EDUCATION

- Master of Science in Civil Engineering, California State University, Fullerton
- Bachelor of Science in Civil Engineering, Institute of Engineering, Nepal

REGISTRATION AND CERTIFIACTION

- Fundamentals of Engineering- Civil # 154946
- LA City Grading Inspector (P037002, Exp. 02/13/2024)
- ICC- Soils Special Inspector
- Nuclear Density and Moisture Operation Certificate

PROFESSIONAL AFFILIATIONS

- Member, American Society of Civil Engineers (ASCE)

RELEVANT PROJECTS

- Deep Soil Mixing, Sussman Middle School, Downey, CA
- Caissons Drilling Observation, Los Alamitos Aquatic Center, Los Alamitos High School, CA
- Caissons and Shoring Observation, St. Mary's Medical Center, Apple Valley, California
- Caissons and Grading Observation, Alpine Recreation Park, Los Angeles
- Pavement Design and Infiltration, HCR Manor Care, Palm Desert, California
- Pavement Design, Disney Stitch Parking, Disneyland, Anaheim, CA
- Geotechnical Investigation, Engineering Analysis and Report, Kaiser MOB, Los Angeles, CA
- Geotechnical Investigation, Sewer lift Station Replacement, Huntington Beach, CA
- Geotechnical Investigation, Engineering Analysis and Report, Brentwood Middle School, Brentwood, CA
- Geotechnical Investigation, Engineering Analysis and Report, Figueroa Business Park, Carson, CA
- Geotechnical Investigation, Engineering Analysis and Report, Parking Structure, Park Century School, Culver City, CA
- Geotechnical Investigation, Engineering Analysis and Report, Multi-Level Commercial Building with 3-level Parking, Sunset Boulevard, West Hollywood, CA
- Geotechnical Investigation, Engineering Analysis and Report, Industrial Buildings, Roxford Street, Sylmar, CA
- Slope Stability, Residential Care Facility, Pacific Coast Highway, Malibu, CA
- Slope Stability and Tie-backs Design, Holliston Avenue, Altadena, CA
- Caissons Observation, Holly Drive, Los Angeles, CA
- Grading Observations, Beverly Glen Drive, Los Angeles

PROFESSIONAL EXPERIENCE

Mr. Prakash has over 10 years of experience in the domain of civil and geotechnical engineering including field investigations, engineering analysis, construction observations and lab testing. He has managed several geotechnical projects for variety of public and private clients. His responsibilities include conducting geotechnical investigations, engineering analysis and providing geotechnical recommendations for geotechnical investigation reports, review shoring and foundation plans, grading and shoring observations during construction.

Mr. Khanal's expertise includes, but is not limited to, shallow and deep foundation engineering design, liquefaction analysis, slope stability analysis of earth and rock slopes, settlement analysis and ground modification techniques using compaction and pressure grouting and deep soil cement mixing. He also has experience with numerous computer aided design and analysis programs such as AutoCAD, AllPile, LPILE, CLiq2, gINT, Slide, GSTABL, Liquefy5, LiqSVS, Slope/W and 3DSettle.

GEOTECHNICAL INSTRUMENTATION

Mr. Khanal has experience in installation and monitoring of inclinometers, nuclear density testing and sand cone density testing.

PUBLICATIONS

- **Khanal, P.,** Tiwari, B., Ajmera, B., Mann, M., and Al Quraishi, M. (2017). "Parametric Study on the Effectiveness of Deep-Soil Mixed Soil-Reinforcement Panels on Seismic De-Amplification at Soft Clay Sites," Proceedings of Geotechnical Frontiers 2017 Geotechnical Special Publication 281, 27-36, DOI: 10.1061/9780784480489.004.
- Mann, M., **Khanal, P.,** Romanielo, M., Sales, C., Tricca, J., Ajmera, B., and Tiwari, B. (2015). "Seismic Shaking Intensity Reduction in Soft Soil Sites using Deep Soil Mixing and Soil-Cement Panels," *23rd Annual Southern California Conference on Undergraduate Research 2015*.

Robert Aguilar, E.I.T.

Staff Engineer, Laboratory Supervisor

EDUCATION

- Bachelor of Science in Civil Engineering, California State University, Fullerton
- Associates in Science - Mathematics, Cypress College, California

REGISTRATION AND CERTIFIACTION

- Engineer in Training, CA, EIT 166924
- Nuclear Density and Moisture Operation Certificate

PROFESSIONAL AFFILIATIONS

- Member, American Society of Civil Engineers (ASCE)
- Member, Deep Foundations Institute (DFI)
- Member, American Concrete Institute (ACI)
- Member, Tau Beta Pi

RELEVANT PROJECTS

- Deep Soil Mixing Design and Compression Testing, Griffiths Middle School, Downey, CA
- Deep Soil Mixing Design and Compression Testing, Sussman Middle School, Downey, CA
- Compaction Grouting, Doty Middle School, Downey, CA
- Pavement Design and Infiltration, McAuliffe Middle School, Los Alamitos, CA
- Pavement Design and Infiltration, Aeolian Elementary School, Whittier, CA
- Solar Panel Mounted Shade Structures, Wasco UESD, Wasco, CA
- Solar Panel Mounted Shade Structures, Lucerne Valley USD, Lucerne Valley, CA
- Solar Panel Mounted Shade Structures, Frazier Park USD, Lebec, CA
- Solar Panel Mounted Shade Structures, Tulare County, CA
- Solar Panel Mounted Shade Structures, San Juaquin County, CA
- Southern California Logistics Airport, Mars Petcare Warehouse, Phantom West and Nevada Avenue, Victorville, CA
- Deep Soil Mixing Design, Compaction and Permeability Testing, East Wintersburg Channel, Huntington Beach, CA
- Jamboree Housing, Pomona, CA
- Jamboree Housing, Fontana, CA
- Saybrook Sewer Lift Station Replacement, Huntington Beach, CA
- Slater Sewer Lift Station Replacement, Huntington Beach, CA
- Slope Stability, North Beverly Drive, Beverly Hills, CA
- Slope Stability and Pile Design, Camelback Drive, Walnut, CA

PROFESSIONAL EXPERIENCE

Mr. Aguilar has over 4 years of practical experience in the civil and geotechnical engineering including field investigations, laboratory management and engineering analysis. His responsibilities include conducting geotechnical investigations, overseeing laboratory testing and providing geotechnical recommendations for geotechnical investigation reports.

Mr. Aguilar's expertise includes, but is not limited to, foundation engineering design, liquefaction analysis, slope stability analysis, settlement analysis and ground modification techniques using compaction and pressure grouting and deep soil cement mixing. He also has experience with numerous computer aided design and analysis programs such as AutoCAD, AllPile, CLiq2, gINT, Geostudio, GSTABL, Liquefy5, LiqSVS, RAM, Slope/W, Seep/W, SAP2000, and 3DSettle.

LABORATORY EXPERIENCE

Mr. Aguilar has over 4 years of practical laboratory experience with unconfined compression testing, moisture and density determination, maximum dry density and optimum moisture content, direct shear, consolidation, sand equivalent, expansion index, gradation and hydrometer testing.

Mr. Aguilar also has over 3 years of laboratory management experience including scheduling and overseeing lab testing, equipment calibration and maintenance and AASHTO proficiency accreditation.

GEOTECHNICAL INSTRUMENTATION

Mr. Aguilar has experience in installation and monitoring of inclinometers, seismographs, groundwater monitoring wells, strain gauges, nuclear density testing and sand cone density testing.

PUBLICATIONS

Obaid, Z. A., Tiwari, B., Ajmera, B., Aguilar, R., 2015. "Unconfined Compressive Strength and Compaction Characteristics of Clay-Shredded Tire Mixtures", Southern California Conference on Undergraduate Research 2015.

CHERIANN HANLEY
Senior Soils Technician

EDUCATION

- Bachelor of Arts, Public Administration, California State University, Fullerton.

CERTIFICATES

- Nuclear Density and Moisture Operation Certificate
- Radiation Safety Officer Certification

PROFESSIONAL EXPERIENCE

Mrs. Hanley has 6 years' experience performing soil inspection of grading operations, base and asphalt laydown, pile installation, shoring, retaining walls, soil stabilization,

- Laboratory/Field Soils Testing
- Asphalt Placement Inspection and Testing
- Field Observation and Testing of subgrade preparation and laydown of aggregate base.
- Observation and testing of utility and storm drain trench backfill.
- Inspection of footing excavation.
- Observation of pile excavations.
- Observation of driven piles and lagged shoring.
- Grading Inspection.
- Observation of soil-cement columns.

REPRESENTATIVE PROJECT EXPERIENCE

- **City of Long Beach –** Geotechnical observation and testing for base and asphalt for city road improvements.
- **St. Marys Medical Center, Victorville, CA –** Geotechnical observation and testing for backbone utilities both wet and dry, storm drain and perimeter roadway for this new medical campus.
- **Los Alamitos Unified School District** – Observation and testing for various modernization and addition projects for elementary, middle, and high school throughout the district.
- **Los Nietos School District** - Geotechnical observation and testing for modernization projects for elementary, middle, and high school throughout the district.
- **Downey Unified School District** - Geotechnical observation and testing for various modernization and addition projects for elementary and middle school throughout the district, including deep soil mixing (DSM) column placement and coring.
- **Lucerne Valley Unified School District -** Geotechnical observation of caissons.
- **Disneyland Resort** - Observation and testing of earthwork, asphalt, and excavations for various projects.
- **Whittaker-Bermite Property, Santa Clarita –** Geotechnical observation and testing for large scale soils remediation for environmental contamination including sampling, dust metering, excavation, mass grading, hillside grading, shoring observations, paving operations for base and asphalt onsite and in the Metrolink parking lot.
- **Xebec Building Company –** Multiple warehouse developments, geotechnical observations and testing for over-excavation grading, footings, utility installation, large storm drain installation, and base and asphalt operations**.**

ALEX P. MAGBOJOS
Senior Soils Technician/Staff Engineer

EDUCATION
- Bachelor of Science, Civil Engineering, Mapua Institute of Technology, Manilla, Philippines

CERTIFICATES
- Registered Professional Civil Engineer, Philippines
- Nuclear Density and Moisture Operation Certificate
- LA City Grading Inspector (P021633, Exp. 11/17/2021)
- ICC Soils

PROFESSIONAL EXPERIENCE
Mr. Magbojos has over 18 years experience performing inspection of grading operations, asphalt laydown, asphalt batch plants, pile installation, and shoring. Mr. Magbojos has extensive experience in performing sand cone and nuclear gauge tests on numerous projects.
- Laboratory/Field Soils Testing
- Asphalt Placement Inspection and Testing
- Installation of stone columns and compaction grouting.
- Field Observation and Testing of subgrade preparation and laydown of aggregate base.
- Observation and testing of utility and storm drain trench backfill.
- Inspection of footing excavation.
- City of LA Grading Inspector
- Inspection of pile installation
- Inspection of soldier pile, tie-back and soil nails.

REPRESENTATIVE PROJECT EXPERIENCE
- **Griffith and Sussman MS, DUSD –** Geotechnical observation and Testing, Observation during installation of soil mix columns for mitigation of earthquake induced liquefaction.
- **City of Artesia Maintenance Facility** – Observation of compaction grouting for liquefaction mitigation.
- **Van Nuys Courthouse** – Observation of compaction grouting for distress mitigation and uplifting of settling slab.
- **Various Water Retention Basins, Pump Station, Inland Empire Utilities Agency** – Field testing for soil, and soil-cement including earthwork quality control utilizing sand cone and nuclear gauge.
- **Long Beach Airport Main Runway** – Soil and Asphalt Field Lab Technician – Performing on-site laboratory testing for asphalt concrete materials.
- **Parking Structure 2, California State University Long Beach** -- Inspection of remedial grading and fundex piles for a new 4-level parking structure.
- **Kaiser Panorama City Replacement Hospital** – Deputy grading and pile inspector for 750 drilled cast in place concrete piles and grading for the replacement hospital.
- **Alhambra Public Library** – Inspection of Soldier pile and tiebacks.
- **Orange County Water District, Advanced Water Treatment Facility** –Grading and pile inspector for 3500 cast in place concrete piles for the advanced water treatment facility.
- **Various Commercial and Public Works Projects within City of Los Angeles** – Deputy grading inspector for numerous projects within City of Los Angeles performing Sand Cone Tests.
- **Public Library, San Marino** – Deputy grading inspector for shoring and fill placement.
- **Heritage Aquatic Center, Irvine** – Grading inspector for fill placement and grading.
- **Beverly Hills Tract Development** – Grading inspector for a large canyon fill placement and performing sand cone density tests.
- **Parnell Medical Plaza** – Inspection of Soldier pile and tiebacks.
- **Valley View Casino** – Inspection of earthwork, soldier pile, tiebacks, soil nail.

GREG ANTISTA

Mr. Greg Antista brings over 18 years of experience from the construction industry. He has served as an inspector on numerous large-scale projects. He has been working as a special inspector on DSA masonry, Reinforced Concrete, Fiber Reinforced Panels and Fireproofing for commercial, industrial, DSA, and residential projects. Mr. Antista has excellent communication, plan reading skills as well as extensive knowledge of up to date building codes. Below is a representative mix of project experience.

CERTIFICATES

- ICC Structural Masonry
- ICC Reinforced Concrete
- ICC Fireproofing
- ICC Welding/Bolting
- ACI Grade 1 Certification
- DSA Masonry
- City of Newport Beach

EDUCATION:

Larson Inspection Training

- California State University Fullerton, BA

REPRESENTATIVE PROJECTS

Los Alamitos High School - Aquatic Center, Los Alamitos CA
Resident Inspector Reinforced Concrete, DSA Masonry
Sussman Middle School, Downey CA
Resident Inspector Reinforced Concrete, DSA Masonry
Warren High School – Aquatic Center and Locker Rooms, Downey, CA
Resident Inspector, DSA Masonry, Shotcrete, and Reinforced Concrete
Santa Ana College, Santa Ana, CA
Parking Lot Expansion, Resident Inspector Reinforced Concrete, DSA Masonry
Rancho Santiago Community College District – Performing Arts Center, Santa Ana, CA
Resident Inspector Reinforced Concrete, DSA Masonry
Van Buren Elementary School, Yorba Linda, CA
Performed DSA Masonry Inspections
Yorba Linda High School Performing Arts Center, Yorba Linda, CA - Special Inspector, 70 acre site, 170,000 sf of structural steel and masonry classrooms. Performed reinforced concrete, Masonry, epoxy and pull tests.
Yorba Linda High School Stadium and Aquatics Center, Yorba Linda, CA - Special Inspector for two story gymnasium, baseball fields, pool and large stadium facility. DSA Masonry, reinforced concrete, epoxy and pull tests.
Kramer Middle School, Placentia, CA
Resident Inspector, DSA Masonry
Nordstrom and the Atrium at Fashion Island, Newport Beach, CA
Resident Inspector, Reinforced Concrete, Masonry and Fireproofing

JOE BALLESTEROS

Mr. Ballesteros worked as structural steel welder for five years prior to becoming a deputy inspector in 2004, and joined the Reliant Team in 2011. His project experience ranges from OSHPD and DSA to Commercial, Industrial, High Rise, Educational and Retail, Public (Title 24), Religious and Amusement Parks.

He is bi-lingual and possesses excellent plan reading skills, extensive knowledge of current building codes including LA City, and is computer literate. Mr. Ballesteros uses Reliant's Ipad reporting system, enabling him to deliver daily reports from the field.

In addition to field inspections, Mr. Ballesteros is one of Reliant's inspection managers, mentoring and training inspectors when they join the Reliant Team.

CERTIFICATIONS

- AWS Certified Welding
- ICC Reinforced Concrete
- ICC Post Tension Concrete
- ICC Structural Masonry
- ICC Welding and Bolting
- ICC Fireproofing
- DSA Masonry
- ACI Grade 1 Field Technician

EDUCATION

- CITR Long Beach

JURISDICTIONAL CERTICATES

- LA City/County/Santa Monica/ Long Beach Reinforced Concrete
- LA City/County/Santa Monica/ Long Beach Masonry
- LA City/County/Santa Monica/ Long Beach Welding
- LA County/Santa Monica/ Long Beach Fireproofing
- LA City/Santa Monica/Long Beach DIA
- LA City/Santa Monica/Long Beach Shotcrete

RECENT REPRESENTATIVE PROJECTS

City of Hope Elevator #2 & 3-Lead welding inspector for 2 elevator replacements
City of Hope Museum-Lead inspector for museum.Concrete, DIA, Welding, Fireproofing
Sunset & Gordon, 22 story high rise and parking structure, Los Angeles – Lead welding
Northgate Market, Los Angeles – Lead Inspector, reinforced concrete, CMU, welding
Little Lake School District, 3 Modernizations – Lead DSA Masonry and CWI
Colton Ave. Apartments, Los Angeles – Lead Inspector Concrete, Welding, DIA
Bristol Farms, Santa Monica – Lead Inspector reinforced concrete, CMU, CWI
Azusa Business Park, 459k, 7 Buildings, Azusa - Lead Inspector welding, DIA
Capelin Distribution Center, 271K, Los Angeles - Lead Inspector Concrete, welding, DIA
Pacific Pointe North 400K, 4 Buildings, Long Beach – Lead Inspector welding, DIA
U-Store it West Covina, West Covina - Lead Inspector welding, DIA
Port of Long Beach Piers D, F & B- Reinforced concrete, welding
Huy Fong Foods 500K Distribution Center, Irwindale – Lead Inspector welding, DIA

Reliant
TESTING ENGINEERS

Curt Caprine

Mr. Curt Caprine brings over 19 years of experience from the construction industry. He has served as an inspector on numerous projects. He has been working as a special inspector on masonry and concrete for commercial, School district and public works projects. Mr. Caprine has excellent communication, plan reading skills as well as extensive knowledge of up to date building codes for multiple jurisdictions.

CERTIFICATES

- ICC Structural Masonry
- ICC Reinforced Concrete
- ACI technician –Grade 1

REPRESENTATIVE PROJECTS

MTA Maintenance and Storage Buildings
Provided Concrete, Drilled in anchor, and masonry inspections for the MTA Maintenance Yard and the New Storage facility

Yorba Linda Medical Office Building
Lead inspector-Performed continuous inspection of rebar placement and concrete inspection for a new 20k sq. ft. medical office building..

Valencia High School Stadium
Resident inspector- Performing continuous rebar placement, batch plant inspections, and concrete inspection for a new football stadium. Approx. $2.4 million dollar

Sussman Middle School - Downey
Performed rebar placement, batch plant and concrete inspections, structural Masonry, and epoxy inspection for the entire project while maintaining a watchful eye on the budget.

The Pegasus School – Huntington Beach
Provided reinforced concrete, structural masonry and rooftop nailing inspections for the new science building that required a very accelerated schedule.

Disneyland Resort
Provided various projects throughout Disneyland and surrounding areas with Reinforced concrete, masonry, and epoxy inspections.

DANIEL ELLENWOOD

NDT Level II / Damage Prevention Specialist

CERTIFICATIONS

- UT Ultrasonics
- MT Magnetic Particle
- GPR Ground Penetrating Radar
- UG Underground Utility Locating

QUALIFICATIONS

- First Aid and CPR
- Forklift Operator Safety (OSHA Title B)
- Crane Rigging and Safety (APR-RP-2D)
- Commercial Air Diving
- Certified Welder D1.1 SMAW 2G

EDUCATION

2004-2005 **College of Oceaneering, Wilmington, CA**
Graduate : May 2005
Specialty : Non Destructive Testing

1991 **High School Diploma, Holly High School, Holly MI**
Graduate: June 1991

HIGHLIGHTED HOSPITAL PROJECT EXPERIENCE

Project: Pomona Hospital
Location: 1798 N. Gary Ave., Pomona CA
Type of Inspection: NDT – Ultrasonic, Magnetic Particle

Project: Loma Linda VA Hosptial
Location: 11201 Benton St., Loma Linda CA
Type of Inspection: NDT - Ultrasonic Testing, Ground Penetrating Radar

Project: Scripp Hospital
Location: 354 Santa Fe Dr., Encinitas CA
Type of Inspection: NDT - Ultrasonic, Magnetic Particle

Project: Scripp Hospital
Location: 354 Santa Fe Dr., Encinitas CA
Type of Inspection: NDT - Ultrasonic, Magnetic Particle

Project: Anaheim Memorial Hospital
Location: 3320 E. LaPalma Ave., Anaheim CA
Type of Inspection: NDT - Ultrasonic, Magnetic Particle

EXPERIENCE

TGR Geotechnical (TGR) and Reliant Testing Engineers (RTE) are located approximately 3 miles from the District Office with an approximate drive time of less than 10 minutes. TGR along with RTE have provided geotechnical, special inspection and material testing services for over 17 years for both modernization and new construction K-12 projects. The school districts that we are currently servicing are:

- Los Angeles Unified School District
- Downey Unified School District
- Riverside Unified School District
- Whittier City School District
- Azusa Unified School District
- Los Nietos School District
- Mountain View School District

TGR/RTE provide expertise in geotechnical engineering, geological studies, earthquake engineering, materials engineering, geotechnical instrumentation, vibration studies, ground improvement, construction inspection and materials testing.

Apart from typical geotechnical/testing services, TGR has unique capabilities that truly distinguish us from other providers. Some of them are listed below and have been utilized by other providers for school and other projects.

- Vibration monitoring to study the impact of construction vibration on existing onsite structures and offsite structures. This helps the district in defending claims against distress to offsite structures due to construction activity. Moreover, based on this study precautions or alternate methods of construction/design can be recommended to reduce such impact on structures and utilities.

- District K-12 facilities are located in a seismic hazard zone, as such ground improvement for mitigation of liquefaction induced settlement is very likely. TGR has extensive experience on a wide variety of ground improvement methods including, stone column, jet grouting, compaction grouting, deep soil mix columns and geopiers.

- Buildings requiring deep foundations (caissons) may require testing to evaluate the integrity of the piles/caissons, specifically if they are placed below the groundwater elevation. TGR has in-house capability for such evaluation utilizing gamma-gamma logging, cross-hole sonic logging and pile integrity testing.

- Fault studies for sites located within AP fault zone.

Multiple projects requiring geotechnical consulting and construction oversight services have been performed at the above-mentioned school districts. We have experience in geotechnical engineering/investigation and construction oversight in ground-up (new) high, middle and elementary schools as well as modernization, remodel and modular projects.

Presented below are ten (10) representative K-12 projects that TGR and RTE have worked (or ongoing) together within the past 3 years:

Project:	**Griffith Middle School Modernization including New Gymnasium & Classroom Building (2017-2021)**
Client:	Downey Unified School District
Location:	Downey, California
Architect:	LPA Architects
Contact:	Mr. Andrew Ulman; (310) 562-1365
Scope of Work:	The project includes a new gymnasium, and two-story classroom building and modernization of various campus buildings including administration and classroom buildings. Our responsibilities include geotechnical investigation, including site seismicity and liquefaction analysis, and provides geotechnical design recommendations for the proposed buildings. Laboratory services were provided for in-situ moisture and density, maximum dry density and optimum moisture content, shear, consolidation, R-value, Atterberg limits, passing No. 200 sieve, corrosion and sulfate content. The site is located within an area having a potential for earthquake induced liquefaction. Liquefaction Analysis was performed on subsurface profile represented by borings as well as CPTs. The total seismic settlement including saturated and dry settlement of sandy soils was estimated to be 1.1-inch to 3.0-inch. The ground improvement was utilized by deep soil mixing columns (DSM). The DSM design including plans and specifications were prepared by TGR in order to get a competitive bid instead of going through a traditional design build way for ground improvement. The geotechnical report along with the DSM Plans and Specifications were approved by California Geological Survey (CGS). Subsequent to CGS approval TGR/RTE provided Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing Services.
Contract Value:	$747,000

Project:	**Sussman Middle School Modernization including New Gymnasium & Classroom Building (2017-2021)**
Client:	Downey Unified School District
Location:	Downey, California
Architect:	Westberg White Architecture
Contact:	Mr. Andrew Ulman; (310) 562-1365
Scope of Work:	The project includes an addition to the administration building, a new science building, and a new gymnasium building. Our responsibilities includes the preparation of a geotechnical and geologic investigation report for the proposed modernization. Laboratory services were provided for in-situ moisture and density, maximum dry density and optimum moisture content, shear, consolidation, passing No. 200 sieve, Atterberg limits, R-value, corrosion, and sulfate content. Layers of sand and clays with varying amounts of silt were observed. Liquefaction design and analysis is a key design factor for this project. Liquefaction Analysis was performed on subsurface profile represented by borings as well as CPTs. Historic depth to groundwater of 8 feet below existing grade was utilized in the calculations. Depending on the settlement analyses which ranges from 2.1 to 5.6 inches, ground improvement method was recommended. The ground improvement was utilized by deep soil mix columns (DSM). The DSM design including plans and specifications were prepared by

TGR in order to get a competitive bid instead of going through a traditional design build way for ground improvement. The geotechnical report along with the DSM Plans and Specifications were approved by California Geological Survey (CGS). Subsequent to CGS approval TGR/RTE provided Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing Services.

Contract Value: $745,000

Project: **Parkview ES Underground Utility Replacement and Modernization (2019-2021)**
Client: Mountain View School District
Location: El Monte, California
Architect: M.S.P. Architects, Long Beach, CA
Contact: Mr. Edgar Paz; (562) 427-5007
Scope of Work: Geotechnical Investigation Report, Geotechnical Consulting Services, Laboratory Testing, Geotechnical Observation, Special Inspection, and Material Testing during construction.
Contract Value: $97,000

Project: **Monte Vista ES Underground Utility Replacement and Modernization (2019-2021)**
Client: Mountain View School District
Location: El Monte, California
Architect: M.S.P. Architects, Long Beach, CA
Contact: Mr. Edgar Paz; (562) 427-5007
Scope of Work: Geotechnical Investigation Report, Geotechnical Consulting Services, Laboratory Testing, Geotechnical Observation, Special Inspection, and Material Testing during construction.
Contract Value: $72,000

Project: **Culver City High School New 2-Story Science building (2017- 2019)**
Client: Culver City Unified School District
Location: Culver City, California
Architect: Rachlin Partners
Contact: Mr. Michael Rachlin; (310) 204-3400
Scope of Work: Geotechnical Investigation Report, Laboratory Testing, Geotechnical Observation, and Testing during construction.
Contract Value: $65,000

Project: **Los Alamitos High School Aquatic Center (2018-2019)**
Client: Los Alamitos Unified School District
Location: Los Alamitos, California
Architect: Tetratech BAS
Contact: Mr. Chris Knowland; (562) 799-4592
Scope of Work: Geotechnical Engineering, Environmental testing for potential export, Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing.
Contract Value: $229,000

Project:	**Azusa High School Athletic Field (2019-2020)**
Client:	Azusa Unified School District
Location:	Azusa, California
Architect:	MSP Architects
Contact:	Mr. Edgar Paz; (562) 427-5007
Scope of Work:	Geotechnical Engineering, Field Permeability Testing for Synthetic Turf, Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing.
Contract Value:	$108,000

Project:	**Gladstone High School Athletic Field (2019-2020)**
Client:	Azusa Unified School District
Location:	Azusa, California
Architect:	MSP Architects
Contact:	Mr. Edgar Paz; (562) 427-5007
Scope of Work:	Geotechnical Engineering, Field Permeability Testing for Synthetic Turf, Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing.
Contract Value:	$53,000

Project:	**Los Alamitos High School Infrastructure (2018-2019)**
Client:	Los Alamitos Unified School District
Location:	Los Alamitos, California
Architect:	Rachlin Architects
Contact:	Mr. Chris Knowland; (562) 799-4592
Scope of Work:	Geotechnical Engineering, Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing.
Contract Value:	$84,000

Project:	**Fremont ES Modernization (2021- to date)**
Client:	Riverside Unified School District
Location:	Riverside, California
Architect:	Ruhnau Clark Architects
Contact:	Mr. Rene Castro; (909) 241-4619
Scope of Work:	Geotechnical Engineering, Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing.
Contract Value:	$270,000

As stated earlier the following table provides the duties and the tasks to be performed by TGR's proposed key personnel and field staff involved in this contract. The personnel listed below have worked on the representative projects listed above. Complete resumes of proposed key personnel are incorporated under Business Profile.

NAME	PROJECT ROLE	DUTIES	Years with Firm	Years K-12 Experience
Dr. Sanjay Govil, PE, GE. (Principal)	Project Manager and Principal Engineer	Staffing and overseeing of field inspectors; budget control; Geotechnical/Soil Design Engineering	19	25
Mr. Ed Burrows, PG, CEG, CHG	Principal Geologist	Geologic Hazard Studies	10	20
Mr. Robert Jones	Project Manager, Special Inspection	Overseeing special inspection of structural components and related materials testing	17	17
Mr. Prakash Khanal	Senior Staff Engineer	Supervision of Soil Inspection and Testing during excavation and site work.	3	3
Mr. Robert Aguelar	Staff Engineer	Soils Laboratory Supervisor	3	3
Mr. Cherian Hanley	Field Operations Manager	Soil Inspection and Testing	4	4
Mr. Alex Magbojos	Senior Soil Technician	Soil Inspection and Testing	18	18
Mr. Greg Antista	Special Inspector	Multi Carded Special Inspection	10	15
Mr. Joe Ballesteros	Special Inspector	Multi Carded Special Inspection	10	15
Mr. Kurt Caprine	Special Inspector	Multi Carded Special Inspection	15	19
Mr. Daniel Ellenwood	UT Level II Manager	NDT Level II	17	17

Dr. Govil (PE, GE) is the point of contact and serve as lead management/project manager and will establish an in-house team of staff personal within 24-hours of notice to proceed to develop a project specific work plan and notify the District of the same along with the timeline of various activities and the delivery date of the report. All construction support services are provided with a 24-hour notification. Dr. Govil can be reached anytime via cell by district project team members. Dr. Govil has extensive experience in Geotechnical Engineering and Geohazard Services along with Environmental site assessments and special inspection and material testing for over 25 years for K-12 schools. The above listed projects were managed by Dr. Govil and involved preparing geotechnical and geohazard reports for approval by CGS and Geotechnical Observation, Special Inspection and Material Testing for Projects. The projects range from new construction to modernization, underground utility replacements, installation of temporary and permanent portables, athletic fields and aquatic centers. Dr. Govil will be responsible for for planning, coordinating, scheduling, and meeting budget requirements. Dr. Govil is the team member who keeps the client and other project consultants informed of all pertinent issues during the duration of the project.

TGR/RTE has enough capacity to service 2 to 3 projects at any given time. Based on the current workload, TGR staff has 50% excess capacity to service County projects over the next year, 75 percent for the second year and 100 percent thereafter.

Apart from K-12 facilities, TGR Geotechnical has a history of working on public works projects with cities, counties, water agencies. TGR is very familiar with the requirements on public works projects including DIR registration, provide certified payroll (if required). Presented below are few representative public works projects performed by TGR:

Project: OCWD Advanced Water Treatment Facility
Client: MWH/Orange County Water District
Location: Fountain Valley, California
Scope of Work: Geotechnical Engineering, Laboratory Testing, Geotechnical Observation, Special Inspection, Out of state Shop Fabrication and Pipeline Fabrication, and Material Testing during construction

Project: On-Call Geotechnical Engineering Services
Client: City of Los Angeles, Sub-Consultant to AMEC and CDM
Location: City of Los Angeles, California
Scope of Work: Geotechnical Observation and Testing and Laboratory Testing Services Plans and Specifications for the project

Project: Long Beach Runway 12-30 Rehabilitation
Client: Griffith Company / Los Angeles World Airport
Location: Ontario, California
Scope of Work: Limited pavement design, Quality Control and Quality Assurance for Subgrade, Soil Cement and P401 Asphalt Paving in accordance with FAA specifications

Project: Annual Services Contract for Geotechnical Engineering, Special Inspection & Material Testing
Client: Inland Empire Utilities Agency
Location: Chino, California
Scope of Work: Geotechnical Investigation Reports for various facilities, Geotechnical Consulting, Laboratory Testing, Observation, Inspection and Testing during construction

Project: MTA Bauchet Street Los Angeles, Parking Structure and Maintenance Building
Client: S.J. Amoroso
Location: Los Angeles, California
Scope of Work: Geotechnical Engineering, Observation, Footing Inspection, Special Inspection, and Testing during construction

Project Name: Gladstone Street Reconstruction/Rehabilitation and Sewer
Client: City of Irwindale
Location: Gladstone Street, Irwindale, California
Scope of Work: Field and laboratory geotechnical and materials testing and inspection services for this reconstruction and rehabilitation project. The project consists of removal of existing pavement, subgrade preparation, and inspection and testing of placement of base and asphalt concrete paving, concrete curbs and gutters. The project also included placement of a new sewer line.

Project: Colored Water Treatment Facility Expansion
Client: MWH/Mesa Water District
Location: Costa Mesa, California
Scope of Work: Special Inspection and Material Testing during construction

Project:	OCWD North Basin Groundwater Protection Project Pipeline, Water Treatment & Injection Wells
Client:	AECOM/Orange County Water District
Location:	Fountain Valley, California
Scope of Work:	Geotechnical Field Investigation, Laboratory Testing and Preparation of a Geotechnical Investigation Report presenting geotechnical design recommendations for the proposed pipeline.

TGR/RTE has not performed any work for Newport-Mesa USD within the last three (3) years. However, as stated earlier and demonstrated through our vast experience and proximity of our office and lab to the district that TGR will be as asset to the District.

PROJECT AND COST MANAGEMENT

TGR Geotechnical is located approximately 3 miles from the District with an approximate drive time of 10 minutes or less. It is TGR's practice to assign soils and special inspectors that live close to the site to reduce drive time. Moreover, TGR does not charge for drive time for soils and special inspectors. TGR utilizes electronic communication for dispatch request, daily field reports and laboratory test reports. TGR has utilized several project management software including E-Builder, Procore Technologies, CA Tools Systems, etc. TGR is usually provided access to the project management system utilized by the construction manager.

TGR is a proactive team player and in constantly in contact with District Architects and Construction Management Teams to assess the upcoming projects and staffing needs. TGR is routinely adding qualified soils and special inspectors to our team based on the upcoming staffing needs. Currently we have a total of 40 soils and special inspectors.

TGR is currently providing geotechnical services to various school districts with multiple projects concurrently. Depending on the nature of the projects we utilize the same inspector on multiple projects or may assign individual inspectors for each project. We work very closely with the IOR and the CM/Architect to see which option may work best for a given number of projects.

TGR is a team player. We always look for the interest of the district. It has been our experience that a review of the plans and specifications by the geotechnical consultant ensures that all recommendations presented in a geotechnical report have been incorporated in the plans and specifications. Thereby eliminations a lot of potential disputes.

We strongly believe in RFI for addressing any clarifications or change of conditions which keeps all the team members informed of the situation. Majority of the disputes are related to the contractor not paying enough attention or reading the geotechnical report prior to bidding on the project. TGR believes in a pre-construction geotechnical meeting to ensure that the project team, specifically the contractor is aware of the geotechnical requirements for the project, thus eliminating most of the disputes upfront.

Items that are usually disputed are over-excavation/stabilization due to soft soil/unstable sub-grade. Here at TGR, we do our best to identify if such situation will occur at a specific site and present remedial measures in the geotechnical report which the contractor is expected to incorporate as part of his bid.

In case of a dispute we prefer to have a jobsite meeting first with the district and A/E firms and then subsequently with the contractors and discuss if a dispute is a change of condition or part of the contract document. If there are financial implications to the district, we usually have a second meeting with the District and A/E in looking at options by weighing on risk and reward and come up with a solution that will be cost effective to the owner as well as meet the contract requirements.

TGR is very cost conscious of tax payer dollars. Typically, TGR performs geotechnical studies (design/investigation reports) on a fixed fee basis depending on the size, complexity and geohazards of the project site. Construction oversight is billed on a time and material basis. Our field personal time is approved by the construction manager or IOR at the end of each day. We are very conscious of the time spent on engineering oversight during construction.

In order to control cost TGR provides clients with a budget recap that presents the dollars spent on each line item with respect to the budget. We also notify clients when we approach 75% of the total budget.

TGR's billing rates are attached and are fixed through December 31, 2021. After that the rates will be adjusted in accordance with the cost of living increase as well as prevailing wage rate increase.

TGR GEOTECHNICAL
DBE & 8(a) firm
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TGR
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2021 SCHEDULE OF FEES

Task	Description	Fee	Unit
ON-SITE FIELD INSPECTION (prevailing wage)			
42000	Soils field technician	$118.00	hour
42100	LA City Deputy Grading Inspector	$128.00	hour
40000	Reinforced concrete	$112.00	hour
40003	Reinforced concrete QC - water/slump/control ACI Technician	$112.00	hour
40006	Post tensioned concrete & stressing operations	$112.00	hour
40010	Epoxy anchors, drilled anchors (inspection/observation only)	$112.00	hour
40015	Shotcrete	$112.00	hour
40020	Masonry	$112.00	hour
40025	Structural steel erection welding and bolting	$112.00	hour
40027	Structural steel erection welding and bolting - AWS/CWI	$112.00	hour
40028	Welder Certification or Welding Procedure Specification Review	$112.00	hour
40030	Structural steel erection: NDT - UT/MT/PT	$145.00	hour
40035	Metal decking	$112.00	hour
40025	Miscellaneous field welding (stairs, curtain wall, davits, etc.)	$112.00	hour
40601	Pull Test Technician and jacking assembly	$150.00	hour
40602	Concrete/Masonry/shotcrete field coring w/equipt. (outside service)	$200.00	hour
40043	Spray applied fireproofing	$112.00	hour
40046	Nailing diaphragm	$112.00	hour
40055	Building Inspector - B1 certification	$165.00	hour
40056	Ground Rod Test including equipment	$450.00	each
42001	Asphalt laydown and batch plant inspection	$118.00	hour
40061	Vehicle/Nuclear Guage Rental	$15.00	hour
40050	Late notice surcharge: Same day dispatch request/Next day request after 4pm	25%	hour
	Prevailing Wage - add per hour for all field, shop and batch plant work	$0.00	hour
	Overtime - after 8 hrs M-F, Sat. 1 to 8 hrs	1.5x	hour
	Overtime - after 12 hrs M-F, Sat. after 8 hrs, Sundays & Holidays 1 to 8 hrs	2x	hour
40002	Pick up/Delivery M-F (Sat/Special Orders at 1.5x - Sun at 2x)	$60.00	hour
40110	Ground Penetrating Radar (Tech/Equipt/Portal to Portal) 4hr min	$250.00	hour
40111	Underground Utility Locating (Tech/Equipt/Portal to Portal) 4hr min	$300.00	hour
40112	Ground Penetrating Radar/Underground Utility - Report including photos	$85.00	day
40100	Radiography	Quote	
40200	Outside services	Cost +15%	
OFF-SITE FIELD INSPECTION (prevailing wage)			
40300	Concrete batch plant and prefabricated concrete QC inspection - local	$112.00	hour
40305	Structural steel Fabrication inspection - local	$112.00	hour
40310	Structural steel Fabrication NDE - local	$145.00	hour
40050	GluLam Beam In-Plant Inspection	$135.00	hour
40051	Modular Building In-Plant inspection	$135.00	hour
40013	Sample and Tag	$60.00	hour
40400	Per Diem	$125.00	day
50000	Mileage (portal to portal - laboratory to project site)	$0.72	mile

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2021 SCHEDULE OF FEES

Task	Description	Fee	Unit
MATERIALS LABORATORY SERVICES			
distance extra.			
10000	Concrete compression tests 6" x 12" (4) or 4" x 8" (5)cylinders - C39	$30.00	each
10001	Concrete/shotcrete core compression up to 6" (including trim) - C42	$50.00	each
10002	Lightwieght concrete compression test - C495	$30.00	each
10003	Flexural Test, 6" x 6" beams - C78	$85.00	each
10020	Gunite cylinders	$35.00	each
10021	Mortar cylinders - C780	$35.00	each
10022	Grout Prisms (including trim) - C39	$35.00	each
10023	Composite masonry prisms compression test, 8" x 8" x 16" - E447	$125.00	each
10025	Masonry core compression test - C140/C39	$50.00	each
10026	Masonry core, shear test	$85.00	each
10019	Block compression 8" x 8" x16" - C140	$125.00	each
10027	Block moisture content & absorption test w/ measurements - C140	$210.00	each
10028	Block shrinkage test - C426	$175.00	each
10029	Non-shrink grout - C1107	$35.00	each
10030	Saw cutting and sample prep	$35.00	each
10031	Unit weight of hardened concrete - C567	$55.00	each
10050	Mix design - review of existing	$250.00	each
10051	Mix design	$450.00	each
10100	Drying Shrinkage (3 bars - 4readings up to 90 days) - C157	$375.00	set
10101	CC Moisture/Vapor Test (plus technician hourly) minimum 3 tests - ASTM F-1869-03	$60.00	each
10102	Drill in Moisture Test (plus technician hourly) minimum 3 tests - ASTM F-21	$85.00	each
10103	Laboratory Trial Batch (slump/unit weight/air/6 cylinders/compression) - C192	$750.00	each
20002	Rebar up to No. 11 tensile or bend test - A615	$60.00	each
20004	Rebar No. 14 tensile or bend test - A615	$85.00	each
20005	Rebar No. 18, hoops, couplers tensile - A615	$175.00	each
20006	PQR Welder Qualifications	quote	each
20010	Steel Tensile strength - A370	quote	each
40307	Carbon Fiber Reinforced panels (1 panel=5 coupons machined and tensile tested)	$1,050.00	each
20015	Prestress/Post tension cables (1 unit) - A416	$215.00	each
20014	Prestress/Post tension cables (2 unit) - A416	$305.00	each
20016	Bolt tensile or Nut proof or Bolt proof tests - A370	$105.00	each
20019	Brinell & Rockwell Hardness Test - A370	$65.00	each
20020	Fireproofing Density Test - UBC 7-6	$55.00	each
20021	Fireproofing Adhesion/Cohesion Test Consumables - 736	$35.00	day
20025	Shotcrete panel coring in laboratory with compression (3 cores) - C42	$195.00	set
20500	Schmidt Hammer, Air meter, Rollometer Rental (plus technician hourly)	$30.00	day
20501	Coring Equipment, proof load ram (plus technician hourly)	$150.00	day
20502	Skidmore, Pachometer, Torque wrench & Accessories (plus Inspector hourly)	$35.00	day
20503	NDE Equipment rental UT/MP/DP (plus NDE inspector hourly)	$55.00	day
20505	Floor flatness profiling (includes equipt., technicians, analysis, report)	$0.03	sf
20508	Coating Thickness Guage (ferrous and non-ferrous metals) plus tech hourly	$60.00	day

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2021 SCHEDULE OF FEES

Task	Description	Fee	Unit
ASPHALT TESTING			
30010	Absorption, Coarse (ASTM C128)	$80.00	each
30015	Absorption, Fine (ASTM C128)	$120.00	each
30025	Asphalt - Combined Marshall and Retained Stability	$460.00	each
30030	Asphalt - Density and Thickness on Core Samples	$90.00	each
30035	Asphalt - Extraction, % Asphalt	$300.00	each
30040	Asphalt - Extraction, Gradation and % Asphalt	$410.00	each
30045	Asphalt - Hveem (S-Value) ASTM D1560 & D1561, or Cal 304 & 366	$410.00	each
30050	Asphalt - Maximum Lab Density (Marshall or Hveem)	$315.00	each
30055	Asphalt - Maximum Theoretical Unit Wt. (Rice Gravity) - ASTM D2041	$195.00	each
30060	Asphalt - Mix Design by Marshall or Stabilometer Method	quotation	each
30065	Asphalt Concrete (Stability and Flow) ASTM D1559	$325.00	each
30070	Atterberg Limits (ASTM D4318)	$190.00	each
30075	California Bearing Ratio (ASTM D1883)	$485.00	each
30080	Chloride	$80.00	each
30085	Cleanness Value (Cal 227)	$180.00	each
30090	Consolidation Test - (ASTM D2435)	$230.00	each
30095	Consolidation Test - Time Rate per Load Increment	$47.00	each
30100	Corrosivity (Sulfate, Cl, pH, Resistivity)	$305.00	each
30110	Crushed or Flat & Elong. Part. (Cal 205 or ASTM D4791 or C119)	$260.00	each
30015	Coring/Hand Auger (4 hrs. minimum)	$185.00	hour
30120	Direct Shear Test (Remolded) - Fast (excluding max)	$285.00	each
30125	Direct Shear Test (slow/Residual)	$365.00	each
30130	Direct Shear Test (undisturbed)	$235.00	each
30135	Durability of Aggregates	$285.00	each
30145	Expansion Index (2.5" or 4") - UBC 18-2, ASTM D4829	$190.00	each
30150	Los Angeles Rattler (ASTM C131)	$218.00	each
30155	Maximum Density - A/B/C (ASTM D1557 or Cal 218)	$202.00	each
30160	Moisture Content & Dry Density - Shelby	$37.00	each
30165	Moisture Content (ASTM D2216)	$18.00	each
30170	Moisture Content and Unit Weight	$32.00	each
30175	Permeability	by	each
30180	pH	$57.00	each
30185	Resistivity	$135.00	each
30190	R-Value Soil (Cal 301)	$335.00	each
30195	R-Value Aggregate Base (Cal 301 or ASTM 2844)	$385.00	each
30200	Sand Equivalent (ASTM D2419 and Cal 217)	$109.00	each
30205	Shrinkage Factors (ASTM D427)	$130.00	each
30210	Sieve (200 wash)	$98.00	each
30215	Sieve with Hydrometer (ASTM D422)	$298.00	each
30220	Sieve without Hydrometer (ASTM C136)	$145.00	each
30225	Soundness - Sodium or Magnesium Sulfate - 5 Cycles (ASTM C88)	$365.00	each
30230	Specific Gravity	$88.00	each
30235	Specific Gravity, Bulk SSD, Coarse (ASTM C127)	$95.00	each
30240	Specific Gravity, Fine (ASTM C128)	$105.00	each
30245	Sulfate	$84.00	each
30250	Swell (Asphalt Concrete) Cal 305	$99.00	each

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2021 SCHEDULE OF FEES

Task	Description	Fee	Unit
GEOTECHNICAL LABORATORY SERVICES, continued			
30255	Triaxial	quotation	each
30260	Unconfined Compression ASTM D2166)	$165.00	each
30265	Unit Weight (ASTM C29)	$65.00	each
Task	**Description**	**Fee**	**Unit**
EPA Environmental Analysis of Soil/Sediment/Water			
30435	size/condition/access)	quotation	
Task	**Description**	**Fee**	**Unit**
Project Commissioning and/or LEED Commissioning			
50000	Senior CxA	$170.00	hour
50001	CxA	$145.00	hour
50002	Mechanical Field Technician	$145.00	hour
50003	Electrical Field Technician	$145.00	hour
50004	Controls Field Technician	$125.00	hour
50005	Coordinator	$90.00	hour
50006	Lead Mechanical Engineer	$170.00	hour
50007	Controls Engineer	$130.00	hour
50008	Mechanical Designer	$130.00	hour
Task	**Description**	**Fee**	**Unit**
Engineering, Project Management, Administration, Reports			
60000	Principal Engineer Materials	$213.00	hour
60001	Principal Geotechnical Engineer/Geologist	$213.00	hour
60011	Project Engineer/Geologist	$156.00	hour
60009	Welding/NDT Consultant or Technical Advisor	$160.00	hour
60020	Project Manager	$135.00	hour
60015	Staff Engineer	$130.00	hour
20025	Engineering Technician (portal to portal, hourly minimums apply)	$115.00	hour
90000	Final Structural Materials Certification of Compliance Minimum (excludes Geo)	$850.00	each
90001	Materials)	$1,560.00	each
60050	Forensic / Expert Witness (4 hours minimum)	$390.00	hour
44000	Laboratory Technician	$82.00	hour
20600	Rush fee for general testing	50%	each
50009	Draftsperson/CAD drawings	$63.00	hour
60201	DIR/Certified payroll reporting	$150.00	payroll
60200	Project Coordinator	$75.00	hour
60205	Administration Fees and Report Distribution	6%	ttl inv

GENERAL CONDITIONS/TERMS AS DEFINED ON THIS FEE SCHEDULE WILL APPLY FOR DURATION OF PROJECT:

Minimum: 2 hours per trip

The onsite general contractor will sign daily inspection reports/time tickets, acting as Owner's/Client's agent in approving all inspection time, including overtime, unless client submits alternative instructions in writing prior to job start.

Parking to be furnished onsite. Fee parking will be charged at cost plus 5% handling

Cities requiring special inspector City permits, interviews, or labatory approval packages: Permit fee and time to secure will be charge

Client is to provide ready access to all work within the scope of the contract, including man lifts, hi-lifts, etc.

Project plans, specifications, addendums, bulletins, RFI's to be provided on site, all costs paid by others.

Client recognizes & agrees proposed/anticipated costs, budget estimates or the like are NOT guaranteed maximums, lump sums, or NTE totals. TGR's time on project is determined by contractors schedule. Work will be billed on T&M basis.

If an LA City approved fabriation shop opts for 3rd party inspection, it will be an add to TGR's contract.

All work including Final must be paid in full prior to issuance of Final Certification of Compliance

Night shift will be charged at time and a half. The field inspection will be adjusted annualy by increase is prevailing wage rates by DI

NOTE: Price list valid through December 31, 2021. Proposal valid for 90 days.

SUB CONSULTANT

TGR along with RTE has enough capacity, resources and capability to perform all professional geotechnical, geohazard services, laboratory testing and special inspection services in-house.

TGR utilized outside drillers, coring companies, cone penetration testing and backhoe companies. TGR has worked with several local reputed companies for drillers, coring, CPT and backhoe for over a decade and can generally schedule their services at short notice. A partial list is presented below:

- Peters Drilling, 1519 Calle Valle, San Clemente, CA 92672, (949) 492-3740
- ABC Drilling, 1180 East Burnett Street, Signal Hill, CA 90755, (562) 981-8575
- Kehoe Testing, 5415 Industrial Drive, Huntington Beach, CA 92649, (714) 901-7270
- Gregg Drilling, 2726 Walnut Avenue, Signal Hill, CA 90755, (562) 427-6899
- 2R Drilling, 6939 Schaefer Ave Ste D-304, Chino, CA 91710, (909) 490-0530
- Ace Drilling, Riverside, (562)270-8530
- Discovery Drilling, 18501 S Main St, Gardena, CA 90248, (310) 538-1584
- J & H Drilling, 7431 Walnut Ave, Buena Park, CA 90620, (714) 994-0402
- Flat and Vertical Coring, Anaheim, (714) 774-2031
- Larry's Concrete Coring, 1379 E 28Th St, Signal Hill, CA 90755, (562) 492-6900
- Calpac Drilling, 526 W Avenue L, Calimesa, 92320, (909) 795-7500

REFERENCES

Years	School District	Contact Person	Title	Phone Number
2016-2021	Mountain View SD	Edgar Paz	Architect	(562) 427-5007
2016-2021	Downey USD	Andrew Ulman	Construction Manager	(310) 562-1365
2016-2019	Los Alamitos USD	CJ Knowland	Director of Facilities	(562) 799-4592
2016-2021	Whittier City SD	Louis Baker	Director of Facilities	(562) 201-8171
2017-2019	Culver City USD	Michael Rachlin	Architect	(310) 204-3400
2019-2021	Azusa USD	Edgar Paz	Architect	(562) 427-5007
2016-2020	Chadwick School	Susan Tobias	Director of Facilities	(310) 377-1543
2020-2021	Los Angeles USD	Stella Onuaguluchi	Procurement/Contracts	213-241-0691
2016-2021	Los Nietos USD	Edgar Paz	Architect	(562) 427-5007

LEGAL ISSUES

There is no pending legal action against the firm nor against any employee of the firm.

In May of 2018 TGR was notified of potential claim for work performed in 2008 for White Memorial Hospital. To protect our insurance rights, we had notified the incident to the insurance carrier. The plaintiff has filed a complaint in September 2019 against all contractors, sub-contractors, architects and professionals of all disciplines. The complaint is regarding a defect in a chilled water line coupling and insulation of a steam line. The complaint was settled through mediation. Just over 96 percent of the settlement amount was paid by the MEP designer, contractor and architect. TGR and others contributed a nuisance fee of less than 4%.

OTHER FORMS

TGR GEOTECHNICAL
DBE & 8(a) firm
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SANTA ANA, CA 92704
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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: TGR Geotechnical, Inc.

1. Location/Accessibility	Write in:	Max.
a. Firm's location - Write in city and county of headquarters or local office, whichever is closest to the District	3037 S. Harbor Blvd, Santa Ana, CA Orange County	5
2. Past Performance	**Write in:**	**Max. Pts.**
a. Identify the Firm's number of years' experience in providing services for K-12	19 Years	5
b. Project listing - Identify the number of K-12 projects the Firm has worked on within last 3 years.	108	5
c. Project listing - Identify the number of Theater projects the Firm has worked on within last 5 years.	1	5
d. Industry experience - Circle the type of projects the Project Team has worked on within the last 3 years (circle all that apply)	(K-12) (Community College) (Charter/ Private School) (Non-School District) (Other Project Types)	5
e. Identify the Firm's number of employees	15	5
3. Claims, Lawsuits, Arbitrations	**Write in:**	**Max. Pts.**
a. Identify the number allegations against the firm or any employee for any violations of law	1 (resolved)	5
b. Identify the number of settlements or judgments involving such actions within the last five (5) years	1	5
4. Record of Past Performance	**Write in:**	**Max. Pts.**
a. Identify the number of client references from a K-12 school district included in the Response (0-3)	5	5

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.

Sanjay Govil
Printed Name


Signature

5/19/2021
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

Sanjay Govil, PhD, PE, GE

Typed or Printed Name

President

Title

TGR Geotechnical, Inc.

Company

3037 S. Harbor Blvd

Address

Santa Ana, CA 92704

Address

714-641-7189

Telephone

714-641-7190

Fax

5/19/2021

Date

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

ATTACHMENT C

STATEMENT OF EXPERIENCE AND FINANCIAL CONDITION

Company Name: TGR Geotechnical, Inc.

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

Address: 3037 S. Harbor Blvd, Santa Ana, CA 92704

Telephone/FAX#: 7146417189/7146417190

Date and State of Formation/Incorporation: January 2, 2002, California

Is the company authorized to do business in California? Yes

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

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

Address: 3037 S. Harbor Blvd
Santa An, CA 92704

FINANCIAL INFORMATION

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

	2017	2018	2019
California:	$1,374,157	$1,722,358	$1,843,439
Total:	$1,374,157	$1,722,358	$1,843,439

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

$746,000 fee for Griffith MS Modernization for Downey USD. Total Construction Cost approx 30M

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.

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: Sanjay Govil

TITLE: President

ATTACHMENT E
PROJECT REFERENCE FORM

Project:	**Griffith Middle School Modernization including New Gymnasium & Classroom Building (2017-2021)**
Client:	Downey Unified School District
Location:	Downey, California
Architect:	LPA Architects
Contact:	Mr. Andrew Ulman; (310) 562-1365
Scope of Work:	The project includes a new gymnasium, and two-story classroom building and modernization of various campus buildings including administration and classroom buildings. Our responsibilities include geotechnical investigation, including site seismicity and liquefaction analysis, and provides geotechnical design recommendations for the proposed buildings. Laboratory services were provided for in-situ moisture and density, maximum dry density and optimum moisture content, shear, consolidation, R-value, Atterberg limits, passing No. 200 sieve, corrosion and sulfate content. The site is located within an area having a potential for earthquake induced liquefaction. Liquefaction Analysis was performed on subsurface profile represented by borings as well as CPTs. The total seismic settlement including saturated and dry settlement of sandy soils was estimated to be 1.1-inch to 3.0-inch. The ground improvement was utilized by deep soil mixing columns (DSM). The DSM design including plans and specifications were prepared by TGR in order to get a competitive bid instead of going through a traditional design build way for ground improvement. The geotechnical report along with the DSM Plans and Specifications were approved by California Geological Survey (CGS). Subsequent to CGS approval TGR/RTE provided Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing Services.
Contract Value:	$747,000

Project:	**Sussman Middle School Modernization including New Gymnasium & Classroom Building (2017-2021)**
Client:	Downey Unified School District
Location:	Downey, California
Architect:	Westberg White Architecture
Contact:	Mr. Andrew Ulman; (310) 562-1365
Scope of Work:	The project includes an addition to the administration building, a new science building, and a new gymnasium building. Our responsibilities includes the preparation of a geotechnical and geologic investigation report for the proposed modernization. Laboratory services were provided for in-situ moisture and density, maximum dry density and optimum moisture content, shear, consolidation, passing No. 200 sieve, Atterberg limits, R-value, corrosion, and sulfate content. Layers of sand and clays with varying amounts of silt were observed. Liquefaction design and analysis is a key design factor for this project. Liquefaction Analysis was performed on subsurface profile represented by borings as well as CPTs. Historic depth to groundwater of 8 feet below existing grade was utilized in the calculations. Depending on the settlement analyses which ranges from 2.1 to 5.6 inches, ground improvement method was recommended. The ground improvement was utilized by deep soil mix columns

(DSM). The DSM design including plans and specifications were prepared by TGR in order to get a competitive bid instead of going through a traditional design build way for ground improvement. The geotechnical report along with the DSM Plans and Specifications were approved by California Geological Survey (CGS). Subsequent to CGS approval TGR/RTE provided Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing Services.

Contract Value: $745,000

Project: **Parkview ES Underground Utility Replacement and Modernization (2019-2021)**
Client: Mountain View School District
Location: El Monte, California
Architect: M.S.P. Architects, Long Beach, CA
Contact: Mr. Edgar Paz; (562) 427-5007
Scope of Work: Geotechnical Investigation Report, Geotechnical Consulting Services, Laboratory Testing, Geotechnical Observation, Special Inspection, and Material Testing during construction.
Contract Value: $97,000

Project: **Monte Vista ES Underground Utility Replacement and Modernization (2019-2021)**
Client: Mountain View School District
Location: El Monte, California
Architect: M.S.P. Architects, Long Beach, CA
Contact: Mr. Edgar Paz; (562) 427-5007
Scope of Work: Geotechnical Investigation Report, Geotechnical Consulting Services, Laboratory Testing, Geotechnical Observation, Special Inspection, and Material Testing during construction.
Contract Value: $72,000

Project: **Culver City High School New 2-Story Science building (2017- 2019)**
Client: Culver City Unified School District
Location: Culver City, California
Architect: Rachlin Partners
Contact: Mr. Michael Rachlin; (310) 204-3400
Scope of Work: Geotechnical Investigation Report, Laboratory Testing, Geotechnical Observation, and Testing during construction.
Contract Value: $65,000

Project: **Los Alamitos High School Aquatic Center (2018-2019)**
Client: Los Alamitos Unified School District
Location: Los Alamitos, California
Architect: Tetratech BAS
Contact: Mr. Chris Knowland; (562) 799-4592
Scope of Work: Geotechnical Engineering, Environmental testing for potential export, Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing.
Contract Value: $229,000

Project:	**Azusa High School Athletic Field (2019-2020)**
Client:	Azusa Unified School District
Location:	Azusa, California
Architect:	MSP Architects
Contact:	Mr. Edgar Paz; (562) 427-5007
Scope of Work:	Geotechnical Engineering, Field Permeability Testing for Synthetic Turf, Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing.
Contract Value:	$108,000

Project:	**Gladstone High School Athletic Field (2019-2020)**
Client:	Azusa Unified School District
Location:	Azusa, California
Architect:	MSP Architects
Contact:	Mr. Edgar Paz; (562) 427-5007
Scope of Work:	Geotechnical Engineering, Field Permeability Testing for Synthetic Turf, Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing.
Contract Value:	$53,000

Project:	**Los Alamitos High School Infrastructure (2018-2019)**
Client:	Los Alamitos Unified School District
Location:	Los Alamitos, California
Architect:	Rachlin Architects
Contact:	Mr. Chris Knowland; (562) 799-4592
Scope of Work:	Geotechnical Engineering, Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing.
Contract Value:	$84,000

Project:	**Fremont ES Modernization (2021- to date)**
Client:	Riverside Unified School District
Location:	Riverside, California
Architect:	Ruhnau Clark Architects
Contact:	Mr. Rene Castro; (909) 241-4619
Scope of Work:	Geotechnical Engineering, Geotechnical Observation, and Testing during construction, Special Inspection and Material Testing.
Contract Value:	$270,000

Project:	**Warren High School Aquatic Center (2016-2017)**
Client:	Downey Unified School District
Location:	Downey, California
Architect:	Westberg White Architecture
Contact:	Mr. Andrew Ulman; (310) 562-1365
Scope of Work:	Geotechnical Consulting Services, Laboratory Testing, Geotechnical Observation, and Testing, Special Inspection & Material Testing.
Contract Value:	$184,000

Project:	**Andrew K-8 & Dexter Middle School Modernization (2018)**
Client:	Whittier City School District
Location:	Whittier, California
Architect:	M.S.P. Architects, Long Beach, CA
Contact:	Mr. Edgar Paz; (562) 427-5007
Scope of Work:	Geotechnical Investigation, Laboratory Testing, Geotechnical Observation, and Testing during grading and utility backfill, Special Inspection and Material Testing
Contract Value:	$52,000

Project:	**Chadwick School Various Ground up Modernization Projects (2016-2018)**
Client:	Chadwick School
Location:	Palos Verdes, California
Architect:	M.S.P. Architects, Long Beach, CA
Contact:	Ms. Susan Tobias; (310) 377-1543 x 4010
Scope of Work:	Geotechnical Investigation Reports, Geotechnical Consulting Services, Laboratory Testing, Geotechnical Observation and Testing
Contract Value:	$71,000

Project:	**Culver City High School New 2-Story Science building (2017- 2019)**
Client:	Culver City Unified School District
Location:	Culver City, California
Architect:	Rachlin Partners
Contact:	Mr. Michael Rachlin; (310) 204-3400
Scope of Work:	Geotechnical Investigation Report, Laboratory Testing, Geotechnical Observation, and Testing during construction.
Contract Value:	$59,000

Project:	**LA High School of Arts, 2-Story Building with Amphitheatre (2016)**
Client:	LA County Office of Education
Location:	Los Angeles, California
Architect:	HMC Architects
Contact:	Ms. Vinceena Kelly; (562) 922-8950
Scope of Work:	Geotechnical Investigation Report, Laboratory Testing, Seismic Analysis, Pile Design, Geotechnical Observation, and Testing during construction, Inclinometer Readings
Contract Value:	$180,000

Project:	**St Mary Medical Center Campus Oasis with 5-story Hospital Building, Victorville (2011-to 2017)**
Client:	St. Joseph Health System
Location:	Victorville, California
Architect:	Robert Martinez Architects & HBE
Contact:	Mr. Luis Lazak; (714) 397-3017
Scope of Work:	Geotechnical Investigation Report, Laboratory Testing, Geophysical Survey, Seismic Analysis, Pile Design, Ground Motion Studies, Pavement Design, Geotechnical Observation and Testing During Development of approximately 100-acre site for backbone infrastructure.
Contract Value:	$274,000

Project:	**Canyon Ridge Hospital 52 Bed Expansion (2017-to 2020)**
Client:	Universal health Services
Location:	Chino, California
Architect:	HGA Architects
Contact:	Ms. Pam Brink; (916) 337-8776
Scope of Work:	Geotechnical Investigation Report, Laboratory Testing, Seismic Analysis, Liquefaction Study and Analysis, geophysical survey, Geotechnical observation and testing.
Contract Value:	$60,000

Project Name:	**Kaiser Permanente South Bay 4-level Replacement Hospital with Basement, Interim Patient Building, and 4-Level Parking Structure (2008 – 2016)**
Client:	Kaiser Permanente
Location:	Harbor City, California
Architect:	HMC Architects, HBE
Contact:	Mr. Francesco Porcella; (310) 816-3814
Scope of Work:	Geotechnical Investigation including laboratory testing and construction oversight. The project included drilled piers, driven piles, dynamic pile testing, cross hole sonic logging, gamma-gamma logging, soldier pile with tie-back shoring.
Contract Value:	$600,000

Project:	**Market Street 3-Story Medical Office Building (2014-2017)**
Client:	Kaiser Foundation Health Plan
Location:	Ventura, California
Architect:	Taylor Design Group
Contact:	Mr. Dana Shirazi; (626) 381-3965
Scope of Work:	Geotechnical Consulting Services, Laboratory Testing, Seismic Analysis, Liquefaction Study and Analysis, Ground Improvement utilizing CDSM, Shallow Foundation Design, Pavement Design, Geotechnical Observation and Testing During Construction.
Contract Value:	$210,000

Project:	**Apple Valley Medical Center MRI & Urgent Care Expansion (2017-2018)**
Client:	St Joseph Health
Location:	Harbor City, California
Architect:	Various
Contact:	Mr. Louis Lazak; (760) 242-2311
Scope of Work:	Geotechnical Consulting Services, Laboratory Testing, Geotechnical Observation, and Testing during construction and Special Inspections and material Testing Services.
Contract Value:	$150,000

Project:	**Kaiser Santa Clarita Specialty MOB with 7-Story Parking Structure (2015-2018)**
Client:	Kaiser Foundation Health Plan
Location:	Ventura, California
Architect:	GKK Works
Contact:	Mr. Gideon Graza; (818) 375-2407
Scope of Work:	Geotechnical Investigation Report, Laboratory Testing, Seismic Analysis,

	Ground Improvement utilizing Jet Grout Columns, Shallow Foundation Design, Pavement Design, Geotechnical Observation and Testing During Construction.
Contract Value:	$77,000

Project:	**Harvey Mud College Dorm and Site Improvements (2014-2018)**
Client:	Harvey Mud College
Location:	Claremont, California
Architect:	Pfeiffer Partners Architects, Inc.
Contact:	Mr. James Hawley; (909) 607-3603
Scope of Work:	Geotechnical Investigation Report, Laboratory Testing, Seismic Analysis, Settlement Analysis, Spread Footing Design, Geotechnical Observation and Testing During Construction
Contract Value:	$67,000

SAMPLE PROPOSAL

Geotechnical
Environmental
Hydrogeology
Material Testing
Construction Inspection

May 19, 2017

Project No. 17-6487

Mr. Joseph Quinonez
Director - Facilities Planning and Development
Downey Unified School District
Building S-4 MOT
11627 Brookshire Avenue
Downey, CA 90241

Subject: Proposal for Geotechnical Investigation for Proposed Administration Building Addition, Science Building and Gymnasium, Sussman Middle School, 12500 Birchdale Avenue, Downey, CA 90242

Joseph,

In accordance with your request, TGR Geotechnical, Inc. (TGR) is pleased to provide this proposal for a geotechnical investigation at the subject site for the proposed Administration Building Addition, Science Building and Gymnasium. The proposal assumes that the work will be performed during normal business hours. The number of proposed borings are in accordance with electronic communication dated May 18, 2017 and adjusted for CGS Note 48 requirements. The subject site is located in a seismic hazard zone with a potential for liquefaction induced settlement. Therefore, 50-foot deep borings are proposed to address liquefaction. We have assumed that access from the gates on the chain link fence will be provided to us.

Scope of Services

We propose to perform the following:

- Sites reconnaissance, mark borings and call dig-alert.
- Sampling and logging seven (7) borings to a depth of approximately 15 to 50 feet below existing grade within/around the requested location. The borings will be terminated when encountering refusal. The borings will be backfilled with cuttings. Any excess soil will be disposed onsite.
- Laboratory testing of selected samples to include: in-situ moisture density, maximum dry density and optimum moisture content, shear, gradation & Atterberg limits, consolidation, sulfate expansion, as appropriate.
- Engineering analysis including liquefaction evaluation, static & seismic settlement, foundation design and earthwork requirements.
- Preparation of an appropriately illustrated report. The report will summarize current subsurface soil conditions, findings, and presenting our recommendations for foundation, flatwork and associated subgrade preparation and will include geologic hazard evaluation.

TGR GEOTECHNICAL
DBE & 8(a) firm
3037 S. HARBOR BLVD
SANTA ANA, CA 92704
P 714.641.7189 F 714.641.7190
www.tgrgeotech.com

Costs and Scheduling

We propose to perform the above outlined scope of work in the amount of Twelve Thousand Four Hundred Dollars ($12,400.00). A breakdown of our fees is presented below. We anticipate submitting our reports (4 copies) to you within approximately 3 weeks of completing our field investigation. Our fee does not include costs to respond to agency review questions as well as costs associated with evaluation of environmental issues at the subject site and cost for observation and testing during construction. If these services become necessary they will be billed in accordance with our current fee schedule on a time and materials basis. We assume the sites will be accessible to our staff and drilling equipment.

Site Recon, coordination, dig-alert		$300.00
Borings and sampling (prevailing wage)		$6,900.00
Laboratory Testing		$2,400.00
Engineering Analysis and Report Preparation		$2,800.00
	Total	**$12,400.00**

If you are in agreement please issue a contract and purchase order. If you have any questions regarding this proposal, please do not hesitate to contact this office. We appreciate this opportunity to be of service.

Respectfully submitted,

TGR GEOTECHNICAL, INC.

Sanjay Govil, PhD, PE, GE 2382
Principal Geotechnical Engineer

Edward L Burrows, MS, PG, CEG 1750
Principal Engineering Geologist

Distribution: (1) Addressee

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SAMPLE PROPOSAL

Geotechnical
Environmental
Hydrogeology
Material Testing
Construction Inspection

December 22, 2017 Project No. 17-6487

Mr. Joseph Quinonez
Director - Facilities Planning and Development
Downey Unified School District
Building S-4 MOT
11627 Brookshire Avenue
Downey, CA 90241

Subject: Proposal for Additional Borings & CPT & Revised Geotechnical Investigation Report for Proposed Administration Building Addition, Science Building and Gymnasium, Sussman Middle School, 12500 Birchdale Avenue, Downey, CA 90242

TGR Geotechnical, Inc., Proposal for Geotechnical Investigation for Proposed Administration Building Addition, Science Building and Gymnasium, Sussman Middle School, 12500 Birchdale Avenue, Downey, CA 90242, P.N. 17-6487, dated May 19, 2017

Joseph,

In accordance with your request, TGR Geotechnical, Inc. (TGR) is pleased to provide this proposal for additional borings and optional CPT's and preparation of a revised geotechnical investigation report for the proposed Administration Building Addition, Science Building and Gymnasium. The proposal assumes that the work will be performed during normal business hours and that access from the gates on the chain link fence will be provided to us.

Scope of Services

We propose to perform the following:

Phase 1: Advancing three (3) hollow stem auger borings to a depth of approximately 25 to 50 feet below existing grade within/around the new requested location. The borings will be terminated when encountering refusal. The borings will be backfilled with cuttings. Any excess soil will be disposed onsite. Laboratory testing of selected samples to include: in-situ moisture density, maximum dry density and optimum moisture content, shear, gradation & Atterberg limits, consolidation, sulfate expansion, as appropriate. Engineering analysis including liquefaction evaluation, static & seismic settlement and preparation of a revised geotechnical investigation report.

Phase 2: Advancing eight (8) CPTs to a depth of approximately 50 to 70 feet below existing grade within/around the requested location. The CPTs will be terminated when encountering refusal. The CPTs will be backfilled with bentonite and asphalt capped as necessary. Engineering analysis including liquefaction evaluation, static & seismic settlement and preparation of a revised geotechnical investigation report.

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Costs and Scheduling

We propose to perform the above outlined scope of work in the amount of Seven Thousand Six Hundred and Fifty Dollars ($6,550.00). A breakdown of our fees is presented below.

Phase 1: Boring, Lab Testing, Engineering Analysis and Revised Report	$7,500.00
Phase 2: CPT's Engineering Analysis and Revised Report	$9,650.00
Total	**$17,150.00**

We will include general guidelines for ground improvement. However. Our scope of work excludes detailed design of ground improvement including plans for DSA submittal and approval.

If you are in agreement please issue a contract and purchase order. If you have any questions regarding this proposal, please do not hesitate to contact this office. We appreciate this opportunity to be of service.

Respectfully submitted,

TGR GEOTECHNICAL, INC.

Sanjay Govil, PhD, PE, GE 2382
Principal Geotechnical Engineer

Edward L Burrows, MS, PG, CEG 1750
Principal Engineering Geologist

Distribution: (1) Addressee

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SAMPLE PROPOSAL

Geotechnical
Environmental
Hydrogeology
Material Testing
Construction Inspection

March 13, 2019 Project No. 17-6487

Mr. Joseph Quinonez
Director - Facilities Planning and Development
Downey Unified School District
Building S-4 MOT
11627 Brookshire Avenue
Downey, CA 90241

Subject: Proposal for Additional Geotechnical Services Related to Ground Improvement and Observation of DSM Columns, Proposed Administration Building Addition, Science Building and Gymnasium, Sussman Middle School, 12500 Birchdale Avenue, Downey, CA 90242

Joseph,

In accordance with your request, TGR Geotechnical, Inc. (TGR) is pleased to provide this proposal for as needed supplemental geotechnical services and observation of DSM column installation related to the modernization project.

Scope of Services
We propose to perform the following:

- Coordinate with district, project architects and structural engineers regarding pre-construction geotechnical issues and provide amendments as requested.
- Response to CGS comments.
- Project Meeting and RFI.
- Geotechnical observation of ground improvement contractors drilling for mix design.
- Review of Mix Design prepared and submitted by the ground improvement contractor.
- Geotechnical observation of Test Section DSM installation and coring.
- Geotechnical observation of Production DSM installation and coring.
- Field Quality Assurance
- Preparation of a final DSM report for each building for approval by CGS.

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Costs and Scheduling

No construction schedule is available at this time. However, we have assumed that approximately 40 DSM columns will be installed per day. The estimated budget to complete the above outlined scope of work is Ninety Seven Thousand Eight Hundred Eighteen Dollars ($97,818.00). A breakdown of fees is presented on Table 1. The fees will be billed in accordance with the attached fee schedule. Additional scope beyond routine services will require an additional change in scope and fee proposal and will be presented to the District in writing for approval. Once construction schedule is available, TGR can provide an updated budget.

If you are in agreement please issue a contract and purchase order. If you have any questions regarding this proposal, please do not hesitate to contact this office. We appreciate this opportunity to be of service.

Respectfully submitted,

TGR GEOTECHNICAL, INC.

Sanjay Govil, PhD, PE, GE 2382
Principal Geotechnical Engineer

Distribution: (1) Addressee

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SAMPLE PROPOSAL

TABLE 1
GEOTECHNICAL DSM BUDGET ESTIMATE
Sussman MS

Description	Fee	Unit	Qty	Days	Total
GEOTECHNICAL ENGINEERING					
Staff Engineer - Test DSM Observation	$120.00	per hour	24	3	$2,880
Staff Engineer - Production DSM Observation	$120.00	per hour	400	50	$48,000
Project Engineer - QA/QC, Project Coordination	$135.00	per hour	40	5	$5,400
Principal Geotechnical Engineer/Geologist - Review Reports, Meetings, Site Visits, Review Submittals	$185.00	per hour	48	6	$8,880
Vehicle and Equipment	$75.00	per day	53		$3,975
DSM Final Report (per Building)	$2,500.00	per report	3		$7,500
Laboratory Testing - UCS on Grab Samples	$20.00	per test	660		$13,200
Laboratory Testing - UCS on Core Samples	$35.00	per test	95		$3,325
Administration Fee & Report Distribution	5%				$4,658
GRAND TOTAL ESTIMATED FEES - GEOTECHNICAL					**$97,818**

GENERAL CONDITIONS:

Pricing, terms and general conditions as defined on this fee schedule will apply for the duration of the project.
Minimum: 2 hours show-up if not canceled By 4pm day prior to arrival/4 hours if work performed/8 hours after 4 hours worked.
Mileage: When Mileage fees are applicable, they will be billed from office to project site and back.
Laboratory test rates do not include sampling time or costs of equipment to secure the samples.
The onsite general contractor will sign daily inspection reports/time tickets, acting as Owner's/Client's agent in approving all inspection time, including overtime, unless client submits alternative instructions in writing.
Parking to be furnished onsite. Fee parking will be charged at cost.
Cities requiring special inspector City permits: Permit and time to secure will be charged to project.
Client recognizes & agrees proposed/anticipated costs, budget estimates or the like are NOT guaranteed maximums, lump sums, or not-to-exceed totals. Client will be invoiced for all work performed and only for work performed.
Swing (2nd) and Graveyard (3rd) shift will be charged at regular rates plus 15% and 20% respectively.
GEO: 2-hour minimum for sample pick-up plus mileage.
Overtime - after 8 hrs M-F, Sat. 1 to 8 hrs 1.5x
Overtime - after 12 hrs M-F, Sat. after 8 hrs, Sundays & Holidays 1 to 8 hrs 2x
NOTE: Price list valid through December 31, 2020.

SAMPLE PROPOSAL

Geotechnical
Environmental
Hydrogeology
Material Testing
Construction Inspection

May 6, 2019

Project No. 19-6887

Mr. Joseph Quinonez
Director, Facilities Planning and Development
Downey Unified School District
11627 Brookshire Ave.
Downey, CA 90241

Subject: Proposal for Geotechnical Observation, Special Inspection and Material Testing, Sussman MS Modernization (DSA # 03-119235) and Interim Housing (DSA # 03-119594 and 03-119911), Sussman Middle School, Downey Unified School District, Downey, California

Joseph,

In accordance with your request TGR Geotechnical, Inc. is please to provide this proposal for geotechnical observation, inspection and material testing services for the subject project.

TGR is a full service geotechnical firm providing geotechnical design and material testing and construction quality control services throughout Southern California. Apart from Downey School District, TGR is proud to have performed geotechnical engineering, construction inspection and material testing services for the construction of K-12 educational facilities for the following school districts:

- Los Alamitos USD
- Placentia Yorba Linda SD
- Santa Ana USD
- Glendale USD
- LA County Office of Education
- Anaheim USD
- Los Angeles USD
- Antelope Valley USD
- Saddleback Valley USD
- Whittier USD
- Murrieta Valley USD
- Chino USD
- Palos Verdes USD
- ABC School District
- Glendora USD
- Huntington Beach USD
- Fullerton USD
- Los Nietos SD

TGR is a team player and works closely with the construction team to keep the project within budget and on schedule. This is achieved by quick response to RFI's and providing a budget recap at each billing cycle.

Our scope of services will include as-needed geotechnical observation and testing and special inspection and material testing services for the subject project and the fees will be billed in accordance with our attached fee schedule. A review of DSA 103 indicates that no soils inspection is required for Interim Housing (DSA # 03-119594 and 03-119911).

No construction schedule is available at this time. Our estimate is based on requiring two full time special inspectors when the masonry is ongoing, However, based on our experience on similar projects, and a review of the plans, we propose a Not to Exceed fee of Six Hundred Sixty Eight Thousand Forty Six Dollars ($668,046.00). A breakdown is presented in Tables 1 and 2. This proposal excludes the geotechnical observation and testing required for ground improvement which we have received a purchase order from the district. This estimate is however dependent upon

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contractor's schedule. Additional soils or materials testing beyond routine services will require an additional change in scope and fee proposal and will be presented to the District in writing for approval. Once construction schedule is available, TGR can provide an updated budget.

If you have any questions regarding this proposal, please do not hesitate to contact this office. We appreciate this opportunity to be of service.

Respectfully submitted,
TGR GEOTECHNICAL, INC.

Sanjay Govil, PhD, PE, GE 2382
President/Principal Geotechnical Engineer

Attachments: Table 1 – Soils Testing Budget
Table 2 – Materials Budget

Distribution: (1) Addressee

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SAMPLE PROPOSAL

TABLE 1
GEOTECHNICAL TESTING BUDGET ESTIMATE
Sussman Middle School Modernization and Interim Housing
DSA # (03-119235, 03-119594 and 03-119911)

Description	Fee	Unit	Qty	Days	Total
GEOTECHNICAL ENGINEERING					
Soil Technician - Grading/Over-Excavation	$107.00	per hour	200	25	$21,400
Soil Technician - Utility Trench Backfill	$107.00	per hour	320	40	$34,240
Soil Technician - Site work	$107.00	per hour	40	5	$4,280
Soil Technician -Base/Asphalt Paving	$107.00	per hour	160	20	$17,120
Staff Engineer - Footing Inspection	$120.00	per hour	40	5	$4,800
Project Engineer - QA/QC Review	$135.00	per hour	40	5	$5,400
Principal Geotechnical Engineer/Geologist - Review Reports, Meetings, Site Visits, Review Submittals	$185.00	per hour	40	5	$7,400
Vehicle and Equipment	$75.00	per day	95		$7,125
Final Compaction Report	$3,000.00	per report	1		$3,000
Laboratory Testing - max density soil & base	$185.00	each	5		$925
Laboratory Testing - max density asphalt	$295.00	each	4		$1,180
Certified Payroll	$125.00	payroll	10		$1,250
Administration Fee & Report Distribution	5%				$5,406
GRAND TOTAL ESTIMATED FEES - GEOTECHNICAL					**$113,526**

GENERAL CONDITIONS:

Pricing, terms and general conditions as defined on this fee schedule will apply for the duration of the project.
Minimum: 2 hours show-up if not canceled By 4pm day prior to arrival/4 hours if work performed/8 hours after 4 hours worked.
Mileage: When Mileage fees are applicable, they will be billed from office to project site and back.
Laboratory test rates do not include sampling time or costs of equipment to secure the samples.
The onsite general contractor will sign daily inspection reports/time tickets, acting as Owner's/Client's agent in approving all inspection time, including overtime, unless client submits alternative instructions in writing.
Parking to be furnished onsite. Fee parking will be charged at cost.
Cities requiring special inspector City permits: Permit and time to secure will be charged to project.
Client recognizes & agrees proposed/anticipated costs, budget estimates or the like are NOT guaranteed maximums, lump sums, or not-to-exceed totals. Client will be invoiced for all work performed and only for work performed.
Swing (2nd) and Graveyard (3rd) shift will be charged at regular rates plus 15% and 20% respectively.
GEO: 2-hour minimum for sample pick-up plus mileage.
Overtime - after 8 hrs M-F, Sat. 1 to 8 hrs 1.5x

Overtime - after 12 hrs M-F, Sat. after 8 hrs, Sundays & Holidays 1 to 8 hrs 2x
NOTE: Price list valid through December 31, 2021.

SAMPLE PROPOSAL

TABLE 2

MATERIAL TESTING BUDGET ESTIMATE

Sussman Middle School Modernization and Interim Housing
DSA # (03-119235, 03-119594 and 03-119911)

Cost Code	Description	Fee	Unit	Qty	Days	Total
ON-SITE FIELD INSPECTION (prevailing wage)						
40000	Reinforced concrete: Fdn, Bldg SOG, Abolts, DIA, epoxy	$102.00	hour	1200	150	$122,400.00
40003	Batch Plant Inspection	$102.00	hour	400	50	$40,800.00
40020	Masonry	$102.00	hour	1200	150	$122,400.00
40025	Structural steel erection, welding, bolting, misc welding	$102.00	hour	1200	150	$122,400.00
40030	Structural steel erection: NDE - UT/MP/DP	$130.00	hour	64	8	$8,320.00
40043	Spray applied fireproofing	$102.00	hour	0	0	$0.00
40601a	Pull Test Technician and jacking assembly	$150.00	hour	120	15	$18,000.00
	Sub Total					**$434,320.00**
OFF-SITE FIELD INSPECTION (prevailing wage)		**To be in LA CITY approved fab shop**				
40305	Structural Steel Fabrication Inspection (local shop)	$102.00	hour	240	30	$24,480.00
40050	GluLam Bean In-Plant Inspection	$102.00	hour	0	0	$0.00
40051	Modular Building in-plant inspection	$102.00	hour	0	0	$0.00
50000	Mileage (portal to portal)	$1.10	mile	0	0	$0.00
40400	Per Diem	$125.00	day	0	0	$0.00
	Sub Total					**$24,480.00**
LABORATORY SERVICES						
The rates quoted below include Monday through Friday pick-up during business hours, and supply of appropriate sample molds. Rush pick-up, weekends, holidays, after hours are extra.						
10000	Concrete compression Tests C39 - 4 (6x12) 5(4x8)	$25.00	each	400		$10,000.00
10021	Mortar cylinders - C780	$30.00	each	75		$2,250.00
10022	Grout Prisms (including trim) - C39	$30.00	each	200		$6,000.00
10023	Composite masonry prisms compression test, 8" x 8" x 16"	$110.00	each	35		$3,850.00
10025	Masonry core compression test - C140/C39	$45.00	each	10		$450.00
10026	Masonry core, shear test	$70.00	each	10		$700.00
20002	Rebar up to No. 11 tensile or bend A615	$55.00	each	100		$5,500.00
20006	Rebar Tag and Sample	$55.00	each	120		$6,600.00
20600	Misc. Material Testing	$1,000.00	allowance	2		$2,000.00
	Sub Total					**$37,350.00**
ENGINEERING & REPORTS						
60000	Principal Materials Engineer	$ 185.00	hour	60		$11,100.00
60011	Project Manager/Engineer	$ 140.00	hour	60		$8,400.00
40028	Review welding procedure specifications	$ 115.00	hour	16		$1,840.00
10050	Review of Existing Mix Design	$ 225.00	each	5		$1,125.00
60201	DIR/Certified payroll reporting	$ 125.00	payroll	60		$7,500.00
60205	Administration, reports, distribution	5%				$26,405.00
90000	Final Structural Certification of Compliance	$500.00	each	4		$2,000.00
	Sub Total					**$58,370.00**
GRAND TOTAL ESTIMATED FEES						**$554,520.00**

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 Sanjay Govil

Title President

Date 5/19/2021

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: Sanjay Govil

Duly Authorized Signature: 

Title: President

Date of this Proposal/Offer: 5/19/2021

Offeror Name: TGR Geotechnical, Inc.

Offeror Address: 3037 S. Harbor Blvd, Santa Ana, CA 92704

Offeror Telephone: 714-641-7189

Offeror Email: sgovil@tgrgeotech.com

ATTACHMENT H

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 President **[PRINT YOUR TITLE]**

of TGR Geotechnical, Inc. **[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: 5/19/2021

Proper Name of Submitter: TGR Geotechnical, Inc.

City, State: Santa Ana, California

Signature:

Print Name: Sanjay Govil

Title: President