



Statement of Qualifications

# Educational Facilities K-12



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*Public Safety Academy - Fairfield, CA*





West Park High School (Roseville Comprehensive High School #6) - Roseville, CA

# Company Overview

**With over 54 years of experience, we have a long history of working with educational facilities in California, providing tailored geotechnical solutions that prioritize safety, compliance, and resilience.**

ENGEO is an award-winning, employee-owned U.S. corporation with more than 400 geotechnical, civil, and coastal engineers, engineering geologists, hydrologists, hydrogeologists, environmental scientists, construction quality-assurance representatives, and laboratory testing specialists. serving clients in the U.S. and abroad for over 54 years. ENGEO serves many iconic and highly visible projects with complex engineering and geologic challenges such as compressible soil, expansive soil, liquefiable soil, unstable terrain, landslides, and seismic hazards.

We bring extensive experience in planning, design, construction, and earthquake retrofitting for educational projects. Our familiarity with Division of State Architect (DSA) and California Geological Survey (CGS) requirements allows us to comply with stringent state standards, often resulting in expedited approvals.

## What We Do

- Geotechnical Engineering
- Engineering Geology
- Environmental Engineering
- Water Resources & Hydrology
- Construction-Phase Testing & Observation
- Special Inspection & Materials Testing
- Stormwater Management
- Geographic Information System (GIS)
- Entitlement & Permitting Support

# Services and Capabilities

## Geotechnical Expertise

ENGEO's engineers and geologists help school districts across the State receive CGS and DSA project approvals in a timely fashion, manage their project development risk, drive down construction costs, and improve schedules. ENGEO's geotechnical services are uniquely designed to address your objectives for each project and include the following.

- Pre-Exploration Geomorphology Evaluation
- Subsurface Characterization
- Fault Characterization
- Earthquake Engineering, Seismic Analysis and Retrofit
- Foundation Engineering
- Shoring Design Review
- Grading Design
- Slope Analysis and Stabilization
- Slope Instrumentation and Monitoring
- Earth Retention System Design
- Subgrade Stabilization
- Ground Improvement Design
- Pavement Analysis and Design
- Settlement Analysis
- Shoreline Engineering
- Building Code-Required Special Inspections of Foundations and Vertical Construction
- Construction Instrumentation and Monitoring
- Construction-Phase Testing and Observation
- Earthwork Testing and Observation

We are recognized by over 100 Building Department jurisdictions throughout California, authorizing ENGEO to provide services for numerous cities and counties. Our engineers are familiar with the latest federal, state, and local practice guidelines, including CBC, DSA, HCAI, SP117A, and CGS Note 48.

*River Islands High School (Phase 2) - Lathrop, CA*



## In-House Laboratory Testing

ENGEO is a certified testing and inspection lab (LEA 92 and 334) as seen on the Division of State Architect (DSA) website: <https://www.apps.dgs.ca.gov/tracker/ApprovedLabs.aspx>.

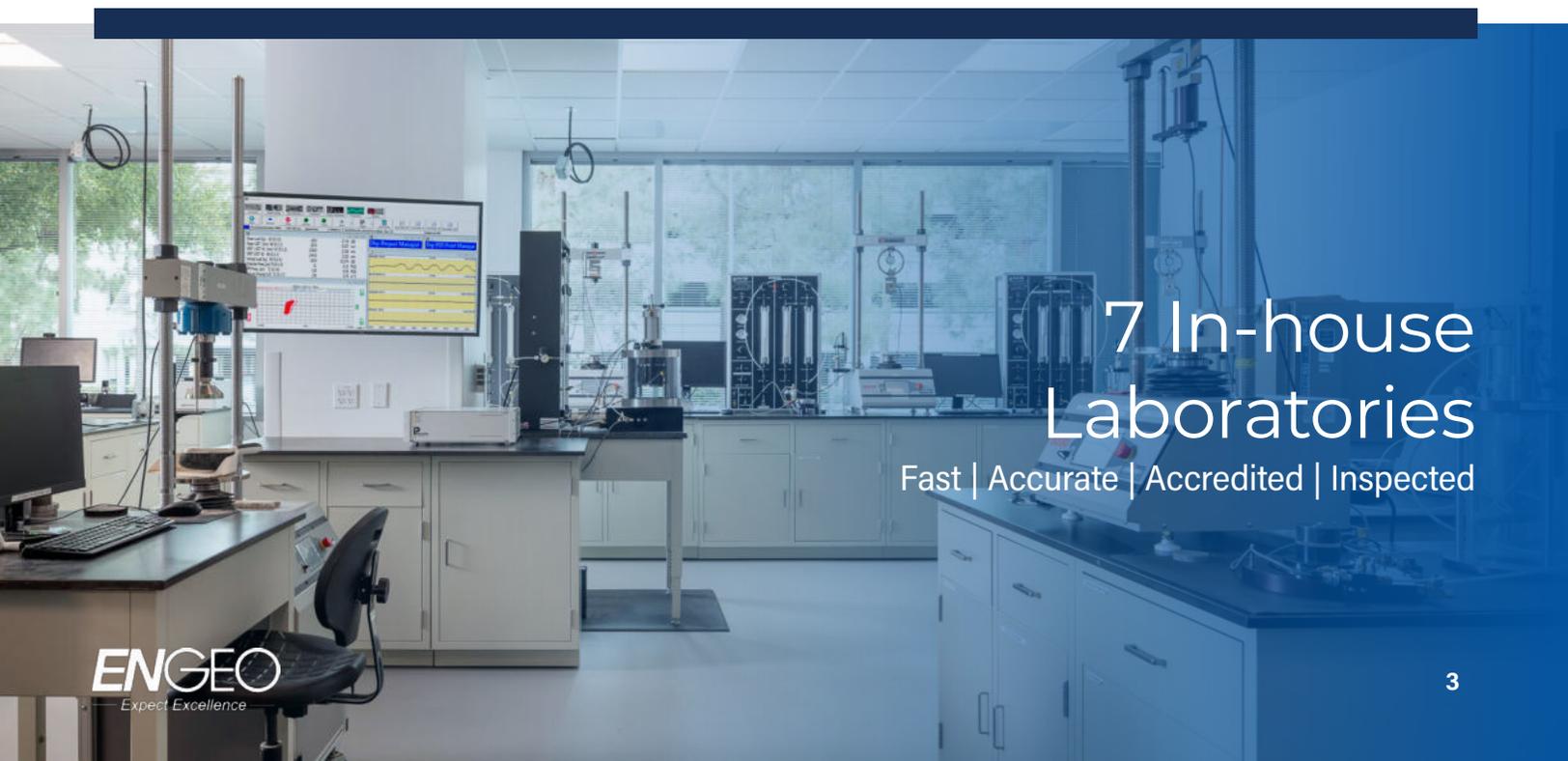
ENGEO maintains seven in-house soil and materials testing laboratories with state-of-the-art equipment managed by registered civil engineers, offering school districts a one stop-shop service that provides quality results quickly and efficiently. We are inspected and accredited through the following:

- U.S. Army Corps of Engineers (USACE)
- California Department of Transportation (Caltrans)
- Cement and Concrete Reference Laboratory (CCRL)
- American Association of State Highway and Transportation Officials (AASHTO)
- Division of State Architect (LEA 92 and 334)

## Testing, Observation, and Special Inspection

We provide earthwork testing and observation, special inspection, quality assurance, and construction monitoring services. Our experience with construction and our numerous experienced field staff lead to efficient and smooth project delivery. For clients with direct responsibility for public safety, our emergency response track record and our quick action to mobilize are instrumental in their success. In addition to nuclear gauge certification, ENGEO's field representatives, special inspectors, and laboratory technicians hold multiple certifications in one of more of the following:

- ICC International Code Council
- ACI American Concrete Institute
- AWS American Welding Society
- ASTM American Society for Testing and Materials
- ACIL American Council of Independent Laboratories
- ANSI American National Standards Institute
- ASNT American Standard of Non-Destructive Testing
- AASHTO American Association of State Highway & Transportation Officials
- Caltrans California Department of Transportation



7 In-house  
Laboratories

Fast | Accurate | Accredited | Inspected

## Environmental/Hazmat

ENGEO provides comprehensive environmental engineering services with extensive experience in investigating below-grade contamination and providing remediation services to both public and private clients. Comprehensive environmental approaches are developed to meet project goals in planning, development, construction, and regulatory compliance.

Many clients rely on ENGEO as an advocate in working with the Department of Toxic Substances Control (DTSC) and the Regional Water Quality Control Boards. ENGEO's expertise is recognized in conducting Preliminary Endangerment Assessments—obtaining DTSC approval on one of California's first school-related Assessments in early 2000. Environmental services include:

- Phase I and II Environmental Site Assessments
- Underground Storage Tank Consultation
- Groundwater Monitoring Well Installation and Sampling
- Soil, Groundwater, and Soil Gas Remediation
- Soil and Groundwater Characterization
- HAZMAT Assessments, Permitting, and Disposal Services
- Subsurface Characterization
- Health Risk Assessments
- Input for EIR/EIS/CEQA
- Hydrogeologic Characterization
- Preliminary Endangerment Assessments
- Naturally Occurring Asbestos (NOA) Dust Mitigation Plans (ADMP) and asbestos air monitoring
- Risk Assessment and Management

## Engineering Geology

We perform engineering geology services as part of the geotechnical design process and engineering geology oversight during construction testing and observation. Our geologists are experienced with the highly varied soil and bedrock conditions contributing to geohazards throughout the west coast. Our approach focuses on working closely with the design and construction team to optimize geotechnical design, resulting in well-designed projects that address geologic and geotechnical concerns while minimizing construction costs. We regularly perform geohazard analyses for schools, critical facilities and other projects. Geologic services include:

- Geologic Exploration for Tunnels, Pipelines, Transportation Corridors
- Landslide Evaluation, Mitigation, Analysis and Repair
- Rock Rippability and Stability
- Fault Trenching and Evaluation
- Long-term Geological Monitoring
- Geologic Mapping and Assessment
- Geologic Analysis and Reports for EIS/EIR
- Corrective Grading and Drainage Recommendations
- Aggregate Resource Assessment and Quantity Takeoff
- Paleontology
- Characterization of Subsurface Conditions using remote sensing technology (Geophysics, InSAR, Lidar, and historic aerial imagery)



I would like to write a letter of recommendation for ENGEO....My relationship began when we began building our first school with the River Island's Company. They had contracted with ENGEO for all of their work while restructuring the levees and preparing the infrastructure of their planned 11,000 homes and 9 schools.

I found ENGEO to be the Cadillac of services...I would recommend ENGEO without any reservations for any work you have on your horizons."

**- William Draa, Superintendent (Former)**  
Ripon Unified School District

# Select Project Experience



## West Park High School (Roseville Comprehensive High School #6)

Roseville, California

West Park High School (Roseville Comprehensive High School #6) is located on approximately 53 acres in the West Park area of Roseville. Improvements include five, three-story classroom buildings, office facilities, administration buildings, a gymnasium/multipurpose room, baseball fields, soccer fields, a depressed football field, underground utilities, exterior concrete flatwork, and asphalt concrete parking areas. The footprint of the classroom buildings and gymnasium are approximately 10,000 and 55,000 square feet, respectively.

Earthwork for these improvements include cuts extending to an approximate depth of 14 feet and fills up to approximately 11 feet in thickness. The project design considers draining most of the roof areas into drywells to leach stormwater into the subsurface soil. Project challenges included detailed seismic and geologic hazards review, as outlined in the California Geological Survey Note 48 checklist. Additionally, the proposed grading included a depressed football field and the project team was concerned about subsurface lateral water migration from a nearby tributary to Pleasant Grove Creek.

We also performed testing and observation services for this project, which included site grading, installation of underground improvements, parking lot and roadway construction, and lime treatment of the building pads. During our services, we communicated with the DSA Inspector of Record (IOR) and uploaded weekly reports to the DSA box website.

### OWNER

Roseville Joint Union High School District

### SCOPE OF WORK

Seismic and Geologic Hazard Review  
Testing and Observation Services

### PROJECT SAVINGS

Mitigated potential issues from nearby tributary



# Anna Kyle Elementary School Administration and Kindergarten Complex

Fairfield, California

We prepared a geotechnical and geologic hazard report for design of a new Administration and Kindergarten Complex at the Anna Kyle Elementary School located in Fairfield, California.

Our services included performing geologic hazard research, securing site access and necessary permits for the subsurface exploration, performing subsurface field exploration, preparing a laboratory testing plan and testing the soil sample at our in-house soil laboratory, performing data analysis and providing our findings, conclusion and geotechnical design recommendations for the design of the project. Additionally, we performed a pavement study to reconstruct or rehabilitate the existing asphalt concrete parking lot concurrent with the Administration and Kindergarten Complex project design and construction.

The exploration consisted of four borings to a maximum depth of about 30 feet and one seismic cone penetration test (CPT) to a depth of about 100 feet. Shear wave velocity data collected with the CPT indicated Site Class C conditions for seismic design. We also performed geotechnical testing and observation and special inspection services during construction of this project.

The primary geotechnical concerns addressed in the geotechnical and geologic hazard report were existing fill, expansive soil, and ground shaking. We developed design parameters to address these issues. Expansive soil was mitigated by founding the building on 1½ feet low-expansive soil. Project challenges included performing the exploration and report preparation in an aggressive timeframe and on budget.

## OWNER

Fairfield Suisun Unified  
School District

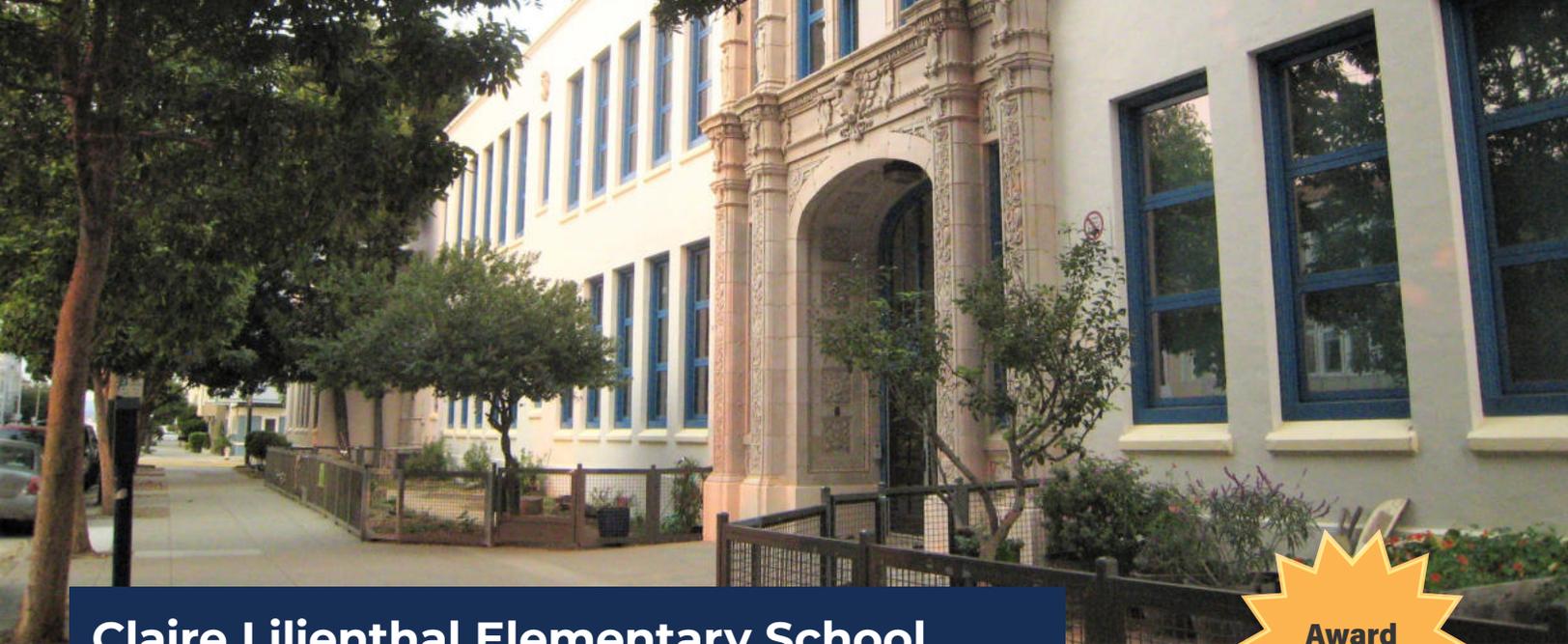
## SCOPE OF WORK

Geotechnical Exploration  
Seismic Analysis  
Geologic Hazard Evaluation

## PROJECT SAVINGS

Performed exploration and  
report preparation in an  
aggressive timeframe

Performed pavement study  
concurrent with the project  
design and construction



# Claire Lilienthal Elementary School

San Francisco, California



The San Francisco Unified School District elected to perform a voluntary seismic retrofit at Claire Lilienthal Elementary School and engaged ENGEО to perform a geologic hazard assessment, prepare construction drawings and specifications for strengthening the soil below existing and new footings, and provide quality control and quality assurance during construction. The ground-improvement work resulted in an increased level of safety for the students, teachers, and faculty while maintaining the historic and cultural significance of the building.

ENGEО also performed testing and observation services associated with the school modernization project. The scope of work included construction of new footings, widening existing footings, and thickening existing shear walls. ENGEО performed geotechnical inspections of the subgrade for the new footings. The ground improvement achieved the project performance criteria, reduced construction costs by 50 percent, and accelerated project completion to less than 5 months.

**Upon finishing the project, ENGEО was awarded the CalGeo 2020-2021 Outstanding Project Award and the 2021 ASCE San Francisco Outstanding Project of the Year Award**

**OWNER**

San Francisco Unified School District

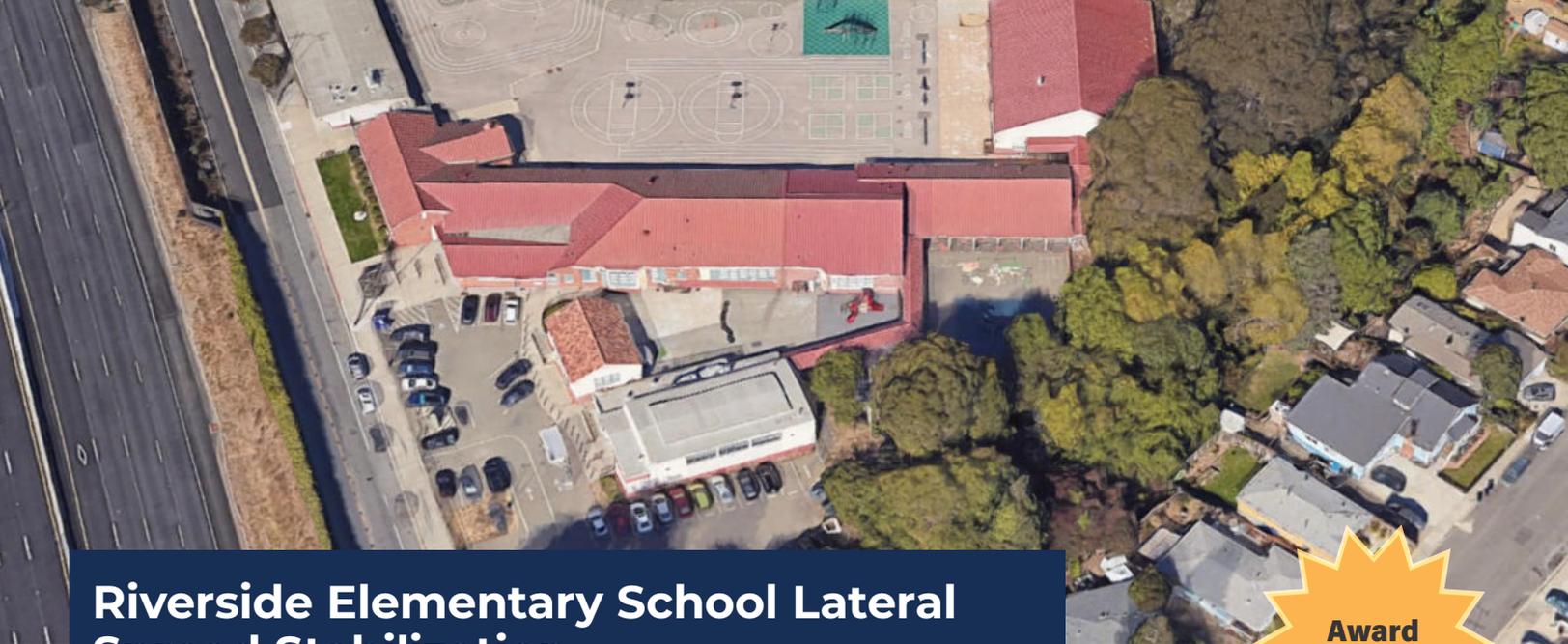
**SCOPE OF WORK**

Geotechnical Engineering  
Testing and Observation

**PROJECT SAVINGS**

Ground improvement  
reduced construction  
costs by 50%

Accelerated project  
completion to less  
than 5 months



# Riverside Elementary School Lateral Spread Stabilization

San Pablo, California



The Riverside Elementary School is a Pre-K to 6th grade school. It was constructed on alluvial soil directly adjacent to an incised creek called Wildcat Creek. Previous evaluation of the site by others identified a hazard of liquefaction within the alluvium and the potential of lateral movement of over 2 feet in the direction of the creek in a seismic event. In order to protect the existing buildings, the design team recommended a design-build team design a lateral spreading restraint element (LSRE) that would reduce potential displacement to 4 inches or less. ENGEEO teamed with Overaa and Keller to design the LSRE, achieve approval by DSA and CGS, and construct the LSRE. ENGEEO performed all analyses, prepared the construction plans and specifications and provided part-time observations during construction.

The LSRE comprises overlapping six-foot-diameter deep soil mix columns oriented in lines perpendicular to the creek bank that act as shear panels against lateral displacement. The project had an exceptionally tight timeline; we were contracted to begin work on design in December 2021 and construction was to start at the beginning of Summer break 2021. We held weekly meetings where we shared our design calculations and received feedback from the Owner’s team. We also invited our reviewer from CGS who participated in the discussions. Our design that was submitted to DSA and CGS review in early March was approved upon first review and construction began on schedule. During construction, the Owner’s team provided Quality Assurance testing while we provided periodic observations to confirm our design was followed. Upon completion, we prepared the as-built plans.

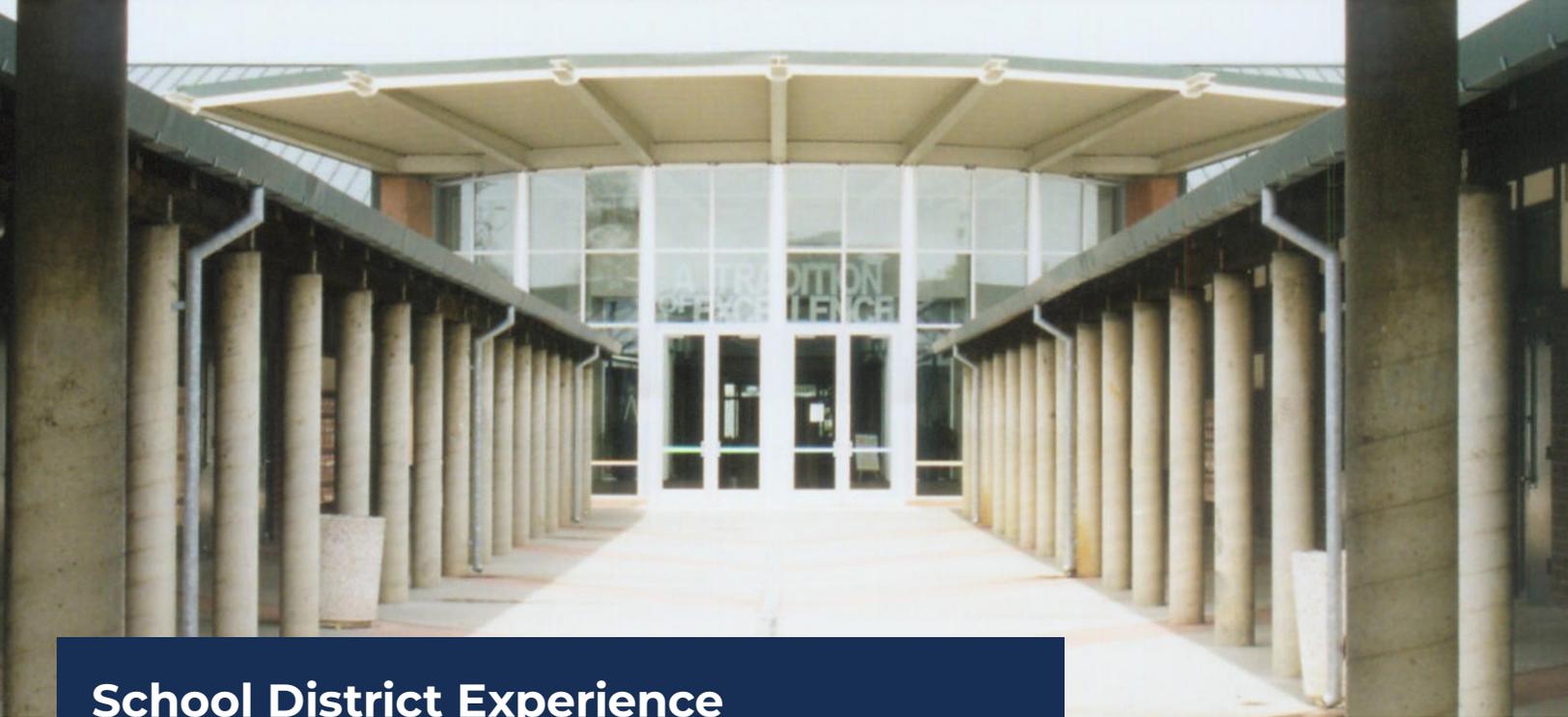
**OWNER**  
West Contra Costa Unified School District

**SCOPE OF WORK**  
Geotechnical Engineering  
Construction Observation

**PROJECT SAVINGS**  
Design approved by DSA & CGS on first review

Design and construction achieved in an exceptionally tight timeline

**This project was awarded Honorable Mention in the CalGeo 2021-2022 Outstanding Project Award, the 2022 Outstanding Seismic Retrofit Award by the San Francisco Section of ASCE, and the 2024 Yearbook of Engineering Award, Education Category**



## School District Experience

Our innovation, creativity, and practicality help clients achieve milestones on schedule and reduce costs. Achieving compliance with geotechnical report requirements in CGS Note 48, and CBC Title 24, is something we are very familiar with, particularly in relation to the State of California and the Division of State Architect (DSA) and the California Geological Survey (CGS).

Throughout our long history, we have provided engineering services to the following districts

- Fairfield Suisun Unified School District
- Roseville Joint Union High School District
- San Francisco Unified School District
- Oakland Unified School District
- Berkeley Unified School District
- West Contra Costa Unified School District
- Mount Diablo Unified School District
- San Ramon Valley Unified School District
- Dublin Unified School District
- Livermore Valley Joint Unified School District
- Banta Unified School District
- Ripon Unified School District
- San Diego Unified School District
- Irvine Unified School District
- Tahoe-Truckee Unified School District
- Eureka Union School District



We've used ENGEO for underground storage tank removal projects, Phase One Environmental Site Assessments, Preliminary Endangerment Assessments and associated soil remediation work. We appreciate their efforts as our advocate in working with the Department of Toxics Substances Control. Their flexibility and responsiveness makes them a valuable addition to our design and construction team. I value their efforts to keep our projects on schedule."

**- Chris Grimes, Director of Facilities Development (Former)**  
Roseville Joint Union High School District



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