

**MODIFICATION No. 5
TO
SAN RAFAEL CITY SCHOOLS
INDEPENDENT CONSULTANT AGREEMENT
FOR PROFESSIONAL SERVICES
WITH CONSOLIDATED ENGINEERING LABORATORIES
FOR CONSTRUCTION INSPECTIONS AND MATERIALS TESTING SERVICES AT
VENETIA VALLEY K-8, LAUREL DELL ELEMENTARY SCHOOL,
DAVIDSON MIDDLE SCHOOL**

This Modification No. 5 ("Modification") modifies the Independent Consultant Agreement for Professional Services ("Agreement"), which was entered into by and between San Rafael City Schools ("District") and Consolidated Engineering Laboratories ("Consultant") (together, "Parties") as follows:

RECITALS

WHEREAS, the parties entered into the Agreement effective as of October 31, 2018; and

WHEREAS, both parties wish to modify the services and compensation provided for in the Agreement; and

Now, THEREFORE, in consideration of the mutual promises and covenants set forth above and contained herein, the Parties agree as follows:

1. **Exhibit "A"** to the Agreement is deleted in its entirety and replaced with the document titled "Exhibit A" and attached to this Amendment.
2. In Section 4 of the Agreement ("Compensation"), "Two Hundred Seventeen Thousand, Six Hundred Fifty-Four Dollars (\$217,654.00)" is deleted and replaced with "Three Hundred Twenty-Four Thousand, Three Hundred Twenty-Nine Dollars and Eighty-Three Cents (\$324,329.83)".
3. Subsections 4.1.1 is deleted in its entirety and replaced with the following:

4.1.1 Venetia Valley GR 1-5 Classroom Replacement/New MPR	\$ 127,423.00
Laurel Dell ES Modernization and Addition	\$ 53,666.00
Davidson MS Classroom Building, New Construction	\$ 36,565.00
Davidson MS Classroom Building (Supplemental)	\$ 13,435.00
Terra Linda HS Innovations Hub	\$ 15,615.58
Terra Linda HS Commons	\$ 2,354.30

4.1.2 District-Wide EV Charging Station Installation	
Bahia Vista Elementary School	\$ 1,817.93
Coleman Elementary School	\$ 1,550.43

Glenwood Elementary School	\$ 1,550.43
San Pedro Elementary School	\$ 1,550.43
Sun Valley Elementary School	\$ 1,550.43
Davidson Middle School	\$ 2,187.94
San Rafael High School	\$ 1,550.43
Terra Linda High School	\$ 1,550.43

4.1.3 Solar Canopy Structure Installation

San Pedro Elementary School	\$ 30,981.25
Glenwood Elementary School	\$ 30,981.25

4. All other provisions of the Agreement shall remain in full force and effect and are reaffirmed. If there is any conflict between this Agreement and any provision of the Agreement relating to this Amendment only, the provisions of this Amendment shall control.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment.

By _____
Jim Hogeboom
Superintendent
San Rafael City Schools

Date

By _____
Gary M. Cappa
Principal
Consolidated Engineering Laboratories

Date

Exhibit "A"

DESCRIPTION OF SERVICES TO BE PERFORMED BY CONSULTANT

Scope of Services: Materials testing and construction inspection services for the San Rafael City Schools ("SRCS") Venetia Valley GR 1-5 Classroom Replacement and New MPR Building project, located at 177 North San Pedro Road, San Rafael, CA 9903; SRCS Laurel Dell ES Modernization and Addition project, located at 225 Woodland Avenue, San Rafael, CA 94901; SRCS Davidson Middle School Classroom Building, New Construction, located at 280 Woodland Avenue, San Rafael, Ca 94901; Terra Linda High School Innovations Hub, located at 320 Nova Albion, San Rafael, CA 94903; and, District-Wide EV Charging Station Installation Project (Bahia Vista Elementary School, Coleman Elementary School, Glenwood Elementary School, San Pedro Elementary School, Sun Valley Elementary School, Davidson Middle School, San Rafael High School, Terra Linda High school).

Consultant's entire Proposals are **not** made part of this Agreement.

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Venetia Valley GR 1-5 Classroom Replacement and New MPR Building

SCOPE OF SERVICES

REINFORCED CONCRETE - SCHOOLS

Mix Review

We will review the proposed concrete mixes in our laboratory for conformance with specifications.

Sample, Tag and Test Reinforcing Steel

Prior to fabrication of the steel, we will make a visit to the reinforcing steel supplier and collect mill certificates and sample reinforcing steel from the unbroken bundles. Testing will be as per American Society for Testing and Materials (ASTM) A615. Once the steel is ready for shipment, we will make another trip to the supplier and inspect to determine the steel has identical heat numbers to that already tested, and tag the steel so that it may be shipped to the job site.

Batch Plant Inspection

Our inspector will periodically check for batch weights, moisture content of aggregates, proper use of admixtures, and batching procedures.

Reinforcing Steel Placement

Will be performed by the Inspector of Record (IOR).

Concrete Placement

Will be performed by the IOR.

Concrete Sampling

Our inspector will be on-site to perform casting of (4x8) concrete cylinders for compression testing at a frequency of five cylinders for every 50 cubic yards placed.

Concrete Compression Testing

We will transport all samples to our laboratory for compression testing in strict accordance with ASTM requirements. Compression test reports will be distributed to the appropriate parties.

STRUCTURAL MASONRY

Mix Design Review

We will review the proposed grout and mortar mixes in our laboratory for conformance with the specifications.

Our inspector's duties will include the following:

- Review mill test certifications of block and reinforcing steel;
- Inspect to determine size and spacing of dowels;
- Inspect to determine that cleanouts are provided for high-lift grouting methods;
- Inspect proper lay-up of block units;
- Inspect reinforcing steel prior to grouting;
- Inspect dowels, anchor bolts and inserts, to make sure they are in place and properly secured prior to grouting;
- Inspect to determine proper consolidation of grout;
- Check that curing requirements are being followed.

Project

SCOPE OF SERVICES (CONT'D)

Materials Testing:

- Sample masonry block for compression tests, linear shrinkage, moisture and absorption per ASTM C140;
- Cast samples of mortar and grout for compression tests. Per California Building Code (CBC) grout prisms shall be tested at 28-days;
- Witness preparation of composite prisms and test for compressive strength in our lab. CBC requires five tests 28 days prior to production, and three for every 5,000 square feet of wall for each block size.

STRUCTURAL STEEL

Shop Inspection

- Review of welding procedure specifications;
- Material identification and mill certificate review;
- Observe the utilization of certified welders and approved welding procedures;
- Visual inspection of welding to determine compliance with contract documents;
- Nondestructive testing of moment welds and column splices;
- Confirm approximate preheat temperature;
- Continuous inspection of multi-pass fillet welds, groove welds and reinforcing steel welding.

Field Inspection

- Observe the utilization of certified welders and approved procedures;
- Confirm approximate preheat temperature;
- Nondestructive testing of moment welds and column splices;
- Inspect to determine and observe proper installation and tightening of high strength bolts;
- Visual inspection of welding to determine compliance with contract documents;
- Continuous inspection of multi-pass fillet welds, groove welds and reinforcing steel welding.

Metal Deck|Shear Studs

Intermittent visual inspection will be conducted for metal deck and shear stud welding.

High Strength Bolting

As required by the California Building Code (CBC), at least two bolts per connection, or a minimum of ten percent (10%) of all high-strength bolts in slip critical connections, will be tested to the required torque per American Society for Testing and Materials (ASTM) guidelines.

Laboratory Testing of High Strength Bolt Assemblies (ASTM A325 | A490)

We will sample a set of three (3) high strength bolt assemblies per size, lot and heat number from sealed kegs at the supplier or steel fabrication plant. We will perform proofload, ultimate and hardness tests on the assemblies in our laboratory.

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SCOPE OF SERVICES (CONT'D)

MISCELLANEOUS STEEL WELDING

Shop Inspection

- Material identification and mill certificate review;
- Pre-qualification of welders and procedures;
- Visual inspection of welding to determine compliance with contract documents;
- Continuous inspection of multi-pass fillet welds, full penetration welds, and reinforcing steel welding.

Field Inspection

- Pre-qualification of welders and procedures;
- Visual inspection of all welds;
- Torque testing of high-strength bolts using a calibrated torque wrench;
- Visual inspection of welding to determine compliance with contract documents;
- Continuous inspection of reinforcing steel welds, multi-pass fillet welds, and full penetration welds.

NON-SHRINK GROUT

Non-Shrink Grout Placement

During the pours, our inspector will periodically monitor the placement. Our inspector will be performing the following duties:

- Determine the adequacy of placement and vibratory equipment;
- Observe proper delivery rate of non-shrink grout and monitor batch times;
- Observe that the correct mix is being utilized;
- Record temperature of air and concrete;
- Cast cubes for compression tests at the specified frequency.

Compression Testing

We will transport all samples to our laboratory for testing in strict accordance with the American Society for Testing and Materials (ASTM) requirements. Reports of compression tests will be distributed to the appropriate parties.

GLU-LAM FABRICATION

Our inspectors will perform the following inspection services:

- Inspect to determine that the proposed lumber grades, adhesive and end-joint details meet with code requirements;
- Determine that materials with lumber-grade marks are being used;
- Measure moisture content of lumber and observe compliance with acceptance range specified;
- Determination of preservative treatment requirements;
- Inspection of gluing and curing;
- Inspection of lamination for glue spread and skips;
- Observe and record finishing procedures;
- Submit written progress reports describing the tests and inspections made and documentation of the action taken to correct non-conforming work.

SCOPE OF SERVICES (CONT'D)

POST-INSTALLED ANCHORS

As required, we will perform visual examination of anchor placement to determine if post-installed anchor holes are clean, of the proper depth and diameter, and installed as specified by the manufacturer. In addition, we will perform proofload/torque testing of the anchors at the percentage defined by the plans and specifications.

NOTE: These estimates assume that adequate access will be provided for performing the work at maximum production, i.e., scaffolding. Should any anchor fail, additional tests will be required per plans.

EXPANSION ANCHORS

As required, we will perform visual examination of anchor placement to determine if anchor holes are clean, of the proper depth and diameter, and installed as specified by the manufacturer. In addition, we will perform proofload/torque testing of the expansion anchors at the percentage defined by the plans and specifications.

NOTE: These estimates assume that adequate access will be provided for performing the work at maximum production, i.e., scaffolding. Should any anchor fail, additional tests will be required per plans.

EPOXY DOWELS AND ANCHORS

As required, we will perform visual examination of dowel/anchor placement to determine if dowel/anchor holes are clean, of the proper depth and diameter, and installed as specified by the manufacturer. In addition, we will perform proofload testing of the epoxy dowels/anchors at the percentage defined by the plans and specifications.

NOTE: These estimates assume that adequate access will be provided for performing the work at maximum production, i.e., scaffolding. Should any dowel/anchor fail, additional tests will be required per plans.

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SRCS VENITIA VALLEY GR 1-5 CLASSROOM REPLACEMENT AND NEW MPR BUILDING
177 NORTH SAN PEDRO ROAD, SAN RAFAEL, CALIFORNIA 94903
CEL #40-06203PW

PRICING

Description	Quantity		Unit Rate	Subtotals	
REINFORCED CONCRETE					
Mix Design Review	4 Each	Each	\$ 250.00	\$ 1,000.00	
Sampling and Tagging Reinforcing Steel	16 Hours	Hours	\$ 82.00	\$ 1,312.00	
Rebar Bend and Tensile Test (Samples, Size #3 - #10)	12 Each	Each	\$ 95.00	\$ 1,140.00	
Batch Plant Inspection	96 Hours	Hours	\$ 82.00	\$ 7,872.00	
Concrete Sampling	96 Hours	Hours	\$ 82.00	\$ 7,872.00	
Concrete Compression Tests	120 Each	Cylinders /24 Sets	\$ 55.00	\$ 6,600.00	
Sample Pick-Ups	24 Each	Trip	\$ 90.00	\$ 2,160.00	
SUBTOTAL:				\$	27,956.00
MASONRY					
Mix Design Review	1 Each	Each	\$ 250.00	\$ 250.00	
Sampling and Tagging Reinforcing Steel	8 Hours	Hours	\$ 82.00	\$ 656.00	
Rebar Bend and Tensile Test (Samples, Size #3 - #10)	6 Each	Each	\$ 95.00	\$ 570.00	
Masonry Placement Inspection	60 Hours	Hours	\$ 88.00	\$ 5,280.00	
Composite Prisms	11 Each	Each	\$ 175.00	\$ 1,925.00	
Grout Compression Tests	24 Each	Each	\$ 55.00	\$ 1,320.00	
Mortar Compression Tests	20 Each	Each	\$ 55.00	\$ 1,100.00	
Sample Pick-Ups	6 Each	Trip	\$ 90.00	\$ 540.00	
SUBTOTAL:				\$	11,641.00
STRUCTURAL STEEL					
Welding Procedure Specification Review	2 Each	Each	\$ 250.00	\$ 500.00	
Shop Fabrication Inspection	240 Hours	Hours	\$ 88.00	\$ 21,120.00	
High Strength Bolt Assemblies	12 Each	Each	\$ 260.00	\$ 3,120.00	
Field Welding Inspection	240 Hours	Hours	\$ 88.00	\$ 21,120.00	
SUBTOTAL:				\$	45,860.00
MISCELLANEOUS STEEL WELDING					
Welding Procedure Specification Review	2 Each	Each	\$ 250.00	\$ 500.00	
Shop Fabrication Inspection	60 Hours	Hours	\$ 88.00	\$ 5,280.00	
Field Welding Inspection	60 Hours	Hours	\$ 88.00	\$ 5,280.00	
SUBTOTAL:				\$	11,060.00
NON-SHRINK GROUT					
Non-Shrink Grout Placement	24 Hours	Hours	\$ 88.00	\$ 2,112.00	
Non-Shrink Grout Compression Tests	18 Each	Each /6 Sets	\$ 55.00	\$ 990.00	
Sample Pick-Ups	6 Each	Trips	\$ 90.00	\$ 540.00	
SUBTOTAL:				\$	3,642.00
GLU-LAM FABRICATION					
Wood Frabrication Inspection (Continuous)	48 Hours	Hours	\$ 115.00	\$ 5,520.00	
Travel costs reimbursable at Cost+15%					
SUBTOTAL:				\$	5,520.00
POST-INSTALLED ANCHORS					
Placement of Post-Installed Anchors	32 Hours	Hours	\$ 82.00	\$ 2,624.00	
Proofload or Torque Testing	32 Hours	Hours	\$ 82.00	\$ 2,624.00	
SUBTOTAL:				\$	5,248.00
EXPANSION ANCHORS					
Placement of Expansion Anchors	20 Hours	Hours	\$ 82.00	\$ 1,640.00	
Proofload or Torque Testing	20 Hours	Hours	\$ 82.00	\$ 1,640.00	
SUBTOTAL:				\$	3,280.00

SRCS VENITIA VALLEY GR 1-5 CLASSROOM REPLACEMENT AND NEW MPR BUILDING
177 NORTH SAN PEDRO ROAD, SAN RAFAEL, CALIFORNIA 94903
CEL #40-06203PW

PRICING

Description	Quantity		Unit Rate	Subtotals	
EPOXY GROUTED DOWELS					
Placement Inspection	20 Hours	Hours	\$ 82.00	\$ 1,640.00	
Proofload Testing	20 Hours	Hours	\$ 82.00	\$ 1,640.00	
SUBTOTAL:				\$	3,280.00
MISCELLANEOUS					
DSA Interim Verified Reports	6 Each	Per Permit	\$ 200.00	\$ 1,200.00	
Final Affidavit	1 Each	Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%				\$ 8,336.09	
SUBTOTAL:				\$	9,936.09
MAN-HOURS		1092	GRAND TOTAL: \$		127,423.09

Basis of Charges: The proposed unit rates will be in effect through June 30, 2019. Thereafter, the unit rates are subject to an annual increase of four and a half percent (4.5%) per year to mitigate the annual operating cost increases:

Work over 8 Hours per day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Swing or Graveyard Shift Premium	\$12.50 per Hour
Work from 0-4 Hours	4-Hour Minimum Billing
Work from 4-8 Hours	8-Hour Minimum Billing
Show-Up Time	2-Hour Minimum Billing
Sample Pick-Up	\$90.00/Trip
Laboratory Testing – Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portal-to-Portal
Final Affidavit (per permit number)	
(request six working days advanced notice)	\$400.00
Extra Copies (over four per issue date) of Inspection Reports and Final Affidavit	\$20.00/each
Project Engineering and Management	7% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40-mile radius)	As Listed Below:
Travel Time	Basic Hourly Rate
Mileage	\$0.60/Mile
Per-Diem, including lodging	\$120.00/Day

QUANTITY DISCLAIMER:

This quote outlined herein was based on the following sources:

- DSA 103 Increment #1, dated July 17, 2018;
- DSA 103 Increment #2, dated June 29, 2018;
- Structural drawings prepared by KPFF, dated June 29, 2018.

This proposal is limited to the scope of services, the number of inspection hours, and the number of associated tests identified herein. Any estimated quantities contained herein are estimates only and Client agrees to payment for services rendered in excess of the estimated quantities and/or cost figures as described herein.

It is recognized that additional services rendered herein under this proposal are schedule driven and are mandated by the scheduling and staffing of the contractor(s). Should items and quantities alter from estimates outlined herein, CEL shall be entitled to compensation for services rendered.

In addition, Client recognizes that, on occasion, due to the schedule of the contractor or relevant subcontractors, occasional overtime may be required. CEL typically will have no notice of this until the day the said overtime occurs. Client agrees to compensate CEL for such overtime.

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Laurel Dell ES Modernization and Addition

SCOPE OF SERVICES

REINFORCED CONCRETE - SCHOOLS

Mix Review

We will review the proposed concrete mixes in our laboratory for conformance with specifications.

Sample, Tag and Test Reinforcing Steel

Prior to fabrication of the steel, we will make a visit to the reinforcing steel supplier and collect mill certificates and sample reinforcing steel from the unbroken bundles. Testing will be as per American Society for Testing and Materials (ASTM) A615. Once the steel is ready for shipment, we will make another trip to the supplier and inspect to determine the steel has identical heat numbers to that already tested, and tag the steel so that it may be shipped to the job site.

Batch Plant Inspection

Our inspector will periodically check for batch weights, moisture content of aggregates, proper use of admixtures, and batching procedures.

Reinforcing Steel Placement

Will be performed by the Inspector of Record (IOR).

Concrete Placement

Will be performed by the IOR.

Concrete Sampling

Our inspector will be on-site to perform casting of (4x8) concrete cylinders for compression testing at a frequency of five cylinders for every 50 cubic yards placed.

Concrete Compression Testing

We will transport all samples to our laboratory for compression testing in strict accordance with ASTM requirements. Compression test reports will be distributed to the appropriate parties.

STRUCTURAL MASONRY

Mix Design Review

We will review the proposed grout and mortar mixes in our laboratory for conformance with the specifications.

Our inspector's duties will include the following:

- Review mill test certifications of block and reinforcing steel;
- Inspect to determine size and spacing of dowels;
- Inspect to determine that cleanouts are provided for high-lift grouting methods;
- Inspect proper lay-up of block units;
- Inspect reinforcing steel prior to grouting;
- Inspect dowels, anchor bolts and inserts, to make sure they are in place and properly secured prior to grouting;
- Inspect to determine proper consolidation of grout;
- Check that curing requirements are being followed.

Materials Testing:

- Sample masonry block for compression tests, linear shrinkage, moisture and absorption per ASTM C140;

- Cast samples of mortar and grout for compression tests. Per California Building Code (CBC) grout prisms shall be tested at 28-days;
- Witness preparation of composite prisms and test for compressive strength in our lab. CBC requires five tests 28 days prior to production, and three for every 5,000 square feet of wall for each block size.

STRUCTURAL STEEL

Shop Inspection

- Review of welding procedure specifications;
- Material identification and mill certificate review;
- Observe the utilization of certified welders and approved welding procedures;
- Visual inspection of welding to determine compliance with contract documents;
- Nondestructive testing of moment welds and column splices;
- Confirm approximate preheat temperature;
- Continuous inspection of multi-pass fillet welds, groove welds and reinforcing steel welding.

Field Inspection

- Observe the utilization of certified welders and approved procedures;
- Confirm approximate preheat temperature;
- Nondestructive testing of moment welds and column splices;
- Inspect to determine and observe proper installation and tightening of high strength bolts;
- Visual inspection of welding to determine compliance with contract documents;
- Continuous inspection of multi-pass fillet welds, groove welds and reinforcing steel welding.

GLU-LAM FABRICATION

Our inspectors will perform the following inspection services:

- Inspect to determine that the proposed lumber grades, adhesive and end-joint details meet with code requirements;
- Determine that materials with lumber-grade marks are being used;
- Measure moisture content of lumber and observe compliance with acceptance range specified;
- Determination of preservative treatment requirements;
- Inspection of gluing and curing;
- Inspection of lamination for glue spread and skips;
- Observe and record finishing procedures;
- Submit written progress reports describing the tests and inspections made and documentation of the action taken to correct non-conforming work.

EPOXY DOWELS AND ANCHORS

As required, we will perform visual examination of dowel/anchor placement to determine dowel/anchor holes are clean, of the proper depth and diameter, and installed as specified by the manufacturer. In addition, we will perform proofload testing of the epoxy dowels/anchors at the percentage defined by the plans and specifications.

NOTE: These estimates assume that adequate access will be provided for performing the work at maximum production, i.e., scaffolding. Should any dowel/anchor fail, additional tests will be required per plans.

**SRCS LAUREL DELL ES MODERNIZATION AND ADDITION
225 WOODLAND AVENUE, SAN RAFAEL, CALIFORNIA 94901
CEL #40-06205PW, DSA FILE #21-39, DSA APPLICATION #01-117453**

PRICING

Description	Quantity		Unit Rate	Subtotals	
REINFORCED CONCRETE					
Mix Design Review	2 Each	Each	\$ 250.00	\$ 500.00	
Sampling and Tagging Reinforcing Steel	3 Hours	Hours	\$ 82.00	\$ 246.00	
Rebar Bend and Tensile Test (Samples, Size #3 - #10)	9 Each	Each	\$ 95.00	\$ 855.00	
Batch Plant Inspection	60 Hours	Hours	\$ 82.00	\$ 4,920.00	
Concrete Sampling	60 Hours	Hours	\$ 82.00	\$ 4,920.00	
Concrete Compression Tests	75 Each	Cylinders / 15 Sets	\$ 35.00	\$ 2,625.00	
Sample Pick-Ups	15 Each	Trip	\$ 90.00	\$ 1,350.00	
SUBTOTAL:				\$	
MASONRY					
Mix Design Review	1 Each	Each	\$ 250.00	\$ 250.00	
Sampling and Tagging Reinforcing Steel	4 Hours	Hours	\$ -	\$ -	
Masonry Placement Inspection	24 Hours	Hours	\$ 88.00	\$ 2,112.00	
Masonry Unit Compression Gross Area	6 Each	Each	\$ 110.00	\$ 660.00	
Grout Compression Tests	16 Each	Each	\$ 35.00	\$ 560.00	
Mortar Compression Tests	16 Each	Each	\$ 35.00	\$ 560.00	
Sample Pick-Ups	4 Each	Trip	\$ 90.00	\$ 360.00	
SUBTOTAL:				\$	
STRUCTURAL STEEL					
Welding Procedure Specification Review	2 Each	Each	\$ 250.00	\$ 500.00	
Shop Fabrication Inspection	80 Hours	Hours	\$ 88.00	\$ 7,040.00	
Field Welding Inspection	80 Hours	Hours	\$ 88.00	\$ 7,040.00	
SUBTOTAL:				\$	14,580.00
GLU-LAM FABRICATION					
Wood Frabrication Inspection (Continuous)	48 Hours	Hours	\$ 115.00	\$ 5,520.00	
Travel costs reimbursable at Cost+15%					
SUBTOTAL:				\$	5,520.00
POST-INSTALLED ANCHORS					
Placement of Post-Installed Anchors	60 Hours	Hours	\$ 82.00	\$ 4,920.00	
Proofload or Torque Testing	60 Hours	Hours	\$ 82.00	\$ 4,920.00	
SUBTOTAL:				\$	9,840.00
MISCELLANEOUS					
DSA Interim Verified Reports	10 Each	Per Permit	\$ 200.00	\$ 2,000.00	
Final Affidavit	1 Each	Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%				\$ 3,658.06	
SUBTOTAL:				\$	4,058.06
MAN-HOURS		479	GRAND TOTAL: \$		53,666.06

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Basis of Charges: The proposed unit rates will be in effect through June 30, 2019. Thereafter, the unit rates are subject to an annual increase of four and a half percent (4.5%) per year to mitigate the annual operating cost increases:

Work over 8 Hours per day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Swing or Graveyard Shift Premium	\$12.50 per Hour
Work from 0-4 Hours	4-Hour Minimum Billing
Work from 4-8 Hours	8-Hour Minimum Billing
Show-Up Time	2-Hour Minimum Billing
Sample Pick-Up	\$90.00/Trip
Laboratory Testing -- Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portal-to-Portal
Final Affidavit (per permit number)	
(request six working days advanced notice)	\$400.00
Extra Copies (over four per issue date) of Inspection Reports and Final Affidavit	\$20.00/each
Project Engineering and Management	7% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40-mile radius)	As Listed Below:
Travel Time	Basic Hourly Rate
Mileage	\$0.60/Mile
Per-Diem, including lodging	\$120.00/Day

QUANTITY DISCLAIMER:

This quote outlined herein was based on the following sources:

- DSA 103 dated June 29, 2018;
- Structural Drawings prepared by ZFA Structural Engineers, dated June 29,, 2018
- Draft Construction Schedule prepared by Swinerton, dated July 24, 2018

This proposal is limited to the scope of services, the number of inspection hours, and the number of associated tests identified herein. Any estimated quantities contained herein are estimates only and Client agrees to payment for services rendered in excess of the estimated quantities and/or cost figures as described herein.

It is recognized that additional services rendered herein under this proposal are schedule driven and are mandated by the scheduling and staffing of the contractor(s). Should items and quantities alter from estimates outlined herein, CEL shall be entitled to compensation for services rendered.

In addition, Client recognizes that, on occasion, due to the schedule of the contractor or relevant subcontractors, occasional overtime may be required. CEL typically will have no notice of this until the day the said overtime occurs. Client agrees to compensate CEL for such overtime.

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Davidson Middle School Classroom Building, New Construction

SCOPE OF SERVICES

REINFORCED CONCRETE - SCHOOLS

Mix Review

We will review the proposed concrete mixes in our laboratory for conformance with specifications.

Sample, Tag and Test Reinforcing Steel

Prior to fabrication of the steel, we will make a visit to the reinforcing steel supplier and collect mill certificates and sample reinforcing steel from the unbroken bundles. Testing will be as per American Society for Testing and Materials (ASTM) A615. Once the steel is ready for shipment, we will make another trip to the supplier and inspect to determine the steel has identical heat numbers to that already tested, and tag the steel so that it may be shipped to the job site.

Batch Plant Inspection

Our inspector will periodically check for batch weights, moisture content of aggregates, proper use of admixtures, and batching procedures.

Reinforcing Steel Placement

Will be performed by the Inspector of Record (IOR).

Concrete Placement

Will be performed by the IOR.

Concrete Sampling

Our inspector will be on-site to perform casting of (4x8) concrete cylinders for compression testing at a frequency of five cylinders for every 50 cubic yards placed.

Concrete Compression Testing

We will transport all samples to our laboratory for compression testing in strict accordance with ASTM requirements. Compression test reports will be distributed to the appropriate parties.

STRUCTURAL STEEL

Shop Inspection

- Review of welding procedure specifications;
- Material identification and mill certificate review;
- Observe the utilization of certified welders and approved welding procedures;
- Visual inspection of welding to determine compliance with contract documents;
- Nondestructive testing of moment welds and column splices;
- Confirm approximate preheat temperature;
- Continuous inspection of multi-pass fillet welds, groove welds and reinforcing steel welding.

Field Inspection

- Observe the utilization of certified welders and approved procedures;
- Confirm approximate preheat temperature;
- Nondestructive testing of moment welds and column splices;
- Inspect to determine and observe proper installation and tightening of high strength bolts;

- Visual inspection of welding to determine compliance with contract documents;
- Continuous inspection of multi-pass fillet welds, groove welds and reinforcing steel welding.

Metal Deck | Shear Studs

Intermittent visual inspection will be conducted for metal deck and shear stud welding.

EPOXY DOWELS AND ANCHORS

As required, we will perform visual examination of dowel/anchor placement to determine dowel/anchor holes are clean, of the proper depth and diameter, and installed as specified by the manufacturer. In addition, we will perform proofload testing of the epoxy dowels/anchors at the percentage defined by the plans and specifications.

NOTE: These estimates assume that adequate access will be provided for performing the work at maximum production, i.e., scaffolding. Should any dowel/anchor fail, additional tests will be required per plans.

**SRCS DAVIDSON MIDDLE SCHOOL CLASSROOM BUILDING, NEW CONSTRUCTION
280 WOODLAND AVENUE, SAN RAFAEL, CALIFORNIA 94901
CEL #40-06204PW
PRICING**

Description	Quantity		Unit Rate	Subtotals	
REINFORCED CONCRETE					
Mix Design Review	2 Each	Each	\$ 250.00	\$ 500.00	
Sampling and Tagging Reinforcing Steel	12 Hours	Hours	\$ 82.00	\$ 984.00	
Rebar Bend and Tensile Test (Samples, Size #3 - #10)	9 Each	Each	\$ 95.00	\$ 855.00	
Batch Plant Inspection	56 Hours	Hours	\$ 82.00	\$ 4,592.00	
Concrete Sampling	56 Hours	Hours	\$ 82.00	\$ 4,592.00	
Concrete Compression Tests	70 Each	Cylinders / 14 Sets	\$ 35.00	\$ 2,450.00	
Sample Pick-Ups	14 Each	Trip	\$ 90.00	\$ 1,260.00	
SUBTOTAL:				\$	15,233.00
STRUCTURAL STEEL					
Welding Procedure Specification Review	2 Each	Each	\$ 250.00	\$ 500.00	
Shop Fabrication Inspection	60 Hours	Hours	\$ 88.00	\$ 5,280.00	
Field Welding Inspection	80 Hours	Hours	\$ 88.00	\$ 7,040.00	
SUBTOTAL:				\$	12,820.00
POST-INSTALLED ANCHORS					
Placement of Post-Installed Anchors	30 Hours	Hours	\$ 82.00	\$ 2,460.00	
Proofload or Torque Testing	30 Hours	Hours	\$ 82.00	\$ 2,460.00	
SUBTOTAL:				\$	4,920.00
MISCELLANEOUS					
DSA Interim Verified Reports	4 Each	Per Permit	\$ 200.00	\$ 800.00	
Final Affidavit	1 Each	Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%				\$ 2,392.11	
SUBTOTAL:				\$	3,592.11
MAN-HOURS		324	GRAND TOTAL: \$		36,565.11

Basis of Charges: The proposed unit rates will be in effect through June 30, 2019. Thereafter, the unit rates are subject to an annual increase of four and a half percent (4.5%) per year to mitigate the annual operating cost increases:

Work over 8 Hours per day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Swing or Graveyard Shift Premium	\$12.50 per Hour
Work from 0-4 Hours	4-Hour Minimum Billing
Work from 4-8 Hours	8-Hour Minimum Billing
Show-Up Time	2-Hour Minimum Billing
Sample Pick-Up	\$90.00/Trip
Laboratory Testing – Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portal-to-Portal
Final Affidavit (per permit number) (request six working days advanced notice)	\$400.00
Extra Copies (over four per issue date) of Inspection Reports and Final Affidavit	\$20.00/each
Project Engineering and Management	7% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40-mile radius)	As Listed Below:
Travel Time	Basic Hourly Rate
Mileage	\$0.60/Mile
Per-Diem, including lodging	\$120.00/Day

QUANTITY DISCLAIMER:

This quote outlined herein was based on the following sources:

- Preliminary DSA 103, provided by Cumming
- Preliminary structural drawings prepared by JLModular, Inc., dated June 25, 2018;
- Preliminary construction schedule for Inc. #1 prepared by Jeff Luchetti Construction dated August 31, 2018;
- Preliminary construction schedule for Inc. # 1 and Inc. #2, provided by Cumming.

This proposal is limited to the scope of services, the number of inspection hours, and the number of associated tests identified herein. Any estimated quantities contained herein are estimates only and Client agrees to payment for services rendered in excess of the estimated quantities and/or cost figures as described herein.

It is recognized that additional services rendered herein under this proposal are schedule driven and are mandated by the scheduling and staffing of the contractor(s). Should items and quantities alter from estimates outlined herein, CEL shall be entitled to compensation for services rendered.

In addition, Client recognizes that, on occasion, due to the schedule of the contractor or relevant subcontractors, occasional overtime may be required. CEL typically will have no notice of this until the day the said overtime occurs. Client agrees to compensate CEL for such overtime.

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Terra Linda High School Innovations Hub

TERRA LINDA HIGH SCHOOL INOVATION HUB
320 NOVA ALBION WAY, SAN RAFAEL, CA 94903
CEL #40-06247PW; GEO #84-04548-PW; DSA APPLICATION #01-117586; DSA FILE #21-H1

PRICING

Description	Quantity	Unit Rate	Subtotal	
REINFORCED CONCRETE				
Mix Design Review	2 Each	\$ 250.00	\$ 500.00	
Sampling and Tagging Reinforcing Steel	4 Hours	\$ 82.00	\$ 328.00	
Rebar Bend and Tensile Test (Samples, Size #3 - #10)	3 Each	\$ 95.00	\$ 285.00	
Batch Plant Inspection	8 Hours	\$ 82.00	\$ 656.00	
Concrete Sampling	8 Hours	\$ 82.00	\$ 656.00	
Concrete Compression Tests	10 Cylinders / 2 Sets	\$ 35.00	\$ 350.00	
Sample Pick-Ups	2 Trip	\$ 90.00	\$ 180.00	
SUBTOTAL:			\$	2,955.00
STRUCTURAL STEEL				
Welding Procedure Specification Review	2 Each	\$ 250.00	\$ 500.00	
Shop Fabrication Inspection	24 Hours	\$ 88.00	\$ 2,112.00	
Field Welding Inspection	24 Hours	\$ 88.00	\$ 2,112.00	
SUBTOTAL:			\$	4,724.00
NON-SHRINK GROUT				
Non-Shrink Grout Placement	4 Hours	\$ 82.00	\$ 328.00	
Non-Shrink Grout Compression Tests	3 Each / 1 Sets	\$ 35.00	\$ 105.00	
Sample Pick-Ups	1 Trips	\$ 90.00	\$ 90.00	
SUBTOTAL:			\$	523.00
POST-INSTALLED ANCHORS				
Placement of Post-Installed Anchors	8 Hours	\$ 82.00	\$ 656.00	
Proofload or Torque Testing	8 Hours	\$ 82.00	\$ 656.00	
SUBTOTAL:			\$	1,312.00
MISCELLANEOUS				
DSA Interim Verified Reports	1 Per Permit	\$ 200.00	\$ 200.00	
Real Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%			\$ 707.98	
SUBTOTAL:			\$	1,307.98
MAN-HOURS				88
GRAND TOTAL:				\$ 10,821.98

Note of Change: The proposed unit rates will be in effect through June 30, 2018. Thereafter, the unit rates are subject to an annual increase of four and a half percent (4.5%) per year to mitigate the annual operating cost increases.

Work over 8 Hours per Day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Backlog (over and over) Shift Premium	\$10.00/ Hour
Work from 5-4 Hours	8 Hour Minimum Billing
Work from 4-3 Hours	8 Hour Minimum Billing
Stand Up Time	2 Hour Minimum Billing
Sample Pick-Up	\$10.00/Trip
Laboratory Testing - Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portable/Portable
Real Affidavit (per permit number)	
(Required six working days advanced notice)	\$400.00
Extra Copies (over four per hour date) of Inspection Reports and Real Affidavit	\$15.00/each
Project Engineering and Management	7% of Fee
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 10%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40 mile radius)	As Listed Below
Travel Time	Basic Hourly Rate
Mileage	\$0.40/Mile
Per Diem, including lodging	\$120.00/Day

QUANTITY DISCLAIMER:

This quote outlined herein was based on the following sources:

- DSA 132 dated June 8th, 2018;
- Structural Drawings and Specifications prepared by H&O, dated June 8th, 2018.

This proposal is limited to the scope of services, the number of inspection hours, and the number of associated tests identified herein. Any estimated quantities contained herein are estimates only and Client agrees to payment for services rendered in excess of the estimated quantities and/or cost figures as described herein.

It is recognized that additional services rendered herein under this proposal are schedule driven and are mandated by the scheduling and staffing of the contractor(s). Should items and quantities alter from estimates outlined herein, CEL shall be entitled to compensation for services rendered.

In addition, Client recognizes that, on occasion, due to the schedule of the contractor or relevant subcontractors, occasional overtime may be required. CEL typically will have no notice of this until the day the said overtime occurs. Client agrees to compensate CEL for such overtime.

Alternative Scope of Services

GEOTECHNICAL ENGINEER OF RECORD				
Site reconnaissance, document review, transfer letter preparation, project management, field consultation, and report preparation.				
Senior Engineer	4 Hours	\$ 180.00	\$ 720.00	
Observation and testing during site clearing and grading.				
Soils Inspector - Half Days	4 Hours	\$ 115.00	\$ 460.00	
Lab, Max Density/Opt Moisture	1 Each	\$ 300.00	\$ 300.00	
Foundation excavation observation.				
Senior Engineer	4 Hours	\$ 180.00	\$ 720.00	
Observation and testing during backfilling operations.				
Soils Inspector - Half Days	8 Hours	\$ 115.00	\$ 920.00	
Observation and testing during subgrade preparation and base/rock placement in paved areas.				
Soils Inspector - Half Days	4 Hours	\$ 115.00	\$ 460.00	
Lab, Max Density/Opt Moisture	1 Each	\$ 300.00	\$ 300.00	
SUBTOTAL:			\$ 3,880.00	
MISCELLANEOUS				
DSA Interim Verified Reports	1 Per Permit	\$ 200.00	\$ 200.00	
Rinal Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%			\$ 313.60	
SUBTOTAL:			\$ 913.60	
MAN-HOURS			0	
GRAND TOTAL:			\$ 4,793.60	

Notes of Changes: The proposal unit rates will be in effect through June 30, 2018. Thereafter, the unit rates are subject to an annual increase of four and a half percent (4.5%) per year to mitigate the annual operating cost increases.

Work over 8 hours per day	Time and One-Half
Work over 12 hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Backing or Overland Haul Premium	\$12.00 per Hour
Work from 0-4 Hours	4 Hour Minimum Billing
Work from 4.5-8 Hours	8 Hour Minimum Billing
Shore Up Time	2 Hour Minimum Billing
Sample Pick-Up	\$85.00/75 lbs
Laboratory Testing - Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Per diem to Portal
Rinal Affidavit (per permit number)	
(Required six working days advanced notice)	\$400.00
Extra Copies (over four per hour data) of Inspection Reports and Rinal Affidavit	\$20.00/each
Project Engineering and Management	7% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimburseables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40 mile radius)	As Listed Below
Travel Time	Basic Hourly Rate
Mileage	\$0.40/Mile
Per Diem, including lodging	\$120.00/Day

QUANTITY DISCLAIMER:

This quote outlined herein was based on the following sources:

- DSA 338 dated June 8th, 2018;
- Structural Drawings and Specifications prepared by H&D, dated June 8th, 2018.

This proposal is limited to the scope of services, the number of inspection hours, and the number of associated tests identified herein. Any estimated quantities contained herein are estimates only and Client agrees to payment for services rendered in excess of the estimated quantities and/or cost figures as described herein.

It is recognized that additional services rendered herein under this proposal are schedule driven and are mandated by the scheduling and staffing of the contractor(s). Should items and quantities alter from estimates outlined herein, CEL shall be entitled to compensation for services rendered.

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SCOPE OF SERVICES

REINFORCED CONCRETE - SCHOOLS

Mix Review

We will review the proposed concrete mixes in our laboratory for conformance with specifications.

Sample, Tag and Test Reinforcing Steel

Prior to fabrication of the steel, we will make a visit to the reinforcing steel supplier and collect mill certificates and sample reinforcing steel from the unbroken bundles. Testing will be as per American Society for Testing and Materials (ASTM) A615. Once the steel is ready for shipment, we will make another trip to the supplier and inspect to determine the steel has identical heat numbers to that already tested, and tag the steel so that it may be shipped to the job site.

Batch Plant Inspection

Our inspector will periodically check for batch weights, moisture content of aggregates, proper use of admixtures, and batching procedures.

Reinforcing Steel Placement

Will be performed by the Inspector of Record (IOR).

Concrete Placement

Will be performed by the IOR.

Concrete Sampling

Our inspector will be on-site to perform casting of (4x8) concrete cylinders for compression testing at a frequency of five cylinders for every 50 cubic yards placed.

Concrete Compression Testing

We will transport all samples to our laboratory for compression testing in strict accordance with ASTM requirements. Compression test reports will be distributed to the appropriate parties.

STRUCTURAL STEEL

Shop Inspection

- Review of welding procedure specifications;
- Material identification and mill certificate review;
- Observe the utilization of certified welders and approved welding procedures;
- Visual inspection of welding to determine compliance with contract documents;
- Nondestructive testing of moment welds and column splices;
- Confirm approximate preheat temperature;
- Continuous inspection of multi-pass fillet welds, groove welds and reinforcing steel welding.

Field Inspection

- Observe the utilization of certified welders and approved procedures;
- Confirm approximate preheat temperature;
- Nondestructive testing of moment welds and column splices;
- Inspect to determine and observe proper installation and tightening of high strength bolts;
- Visual inspection of welding to determine compliance with contract documents;
- Continuous inspection of multi-pass fillet welds, groove welds and reinforcing steel welding.

NON-SHRINK GROUT

Non-Shrink Grout Placement

During the pours, our inspector will periodically monitor the placement. Our inspector will be performing the following duties:

- Determine the adequacy of placement and vibratory equipment;
- Observe proper delivery rate of non-shrink grout and monitor batch times;
- Observe that the correct mix is being utilized;
- Record temperature of air and concrete;
- Cast cubes for compression tests at the specified frequency.

Compression Testing

We will transport all samples to our laboratory for testing in strict accordance with the American Society for Testing and Materials (ASTM) requirements. Reports of compression tests will be distributed to the appropriate parties.

POST-INSTALLED ANCHORS

As required, we will perform visual examination of dowel/anchor placement to determine dowel/anchor holes are clean, of the proper depth and diameter, and installed as specified by the manufacturer. In addition, we will perform proofload testing of the epoxy dowels/anchors at the percentage defined by the plans and specifications.

NOTE: These estimates assume that adequate access will be provided for performing the work at maximum production, i.e., scaffolding. Should any dowel/anchor fail, additional tests will be required per plans.

ALTERNATE SCOPE OF SERVICES

GEOTECHNICAL ENGINEER OF RECORD AND SOILS TESTING

A geotechnical staff engineer will also provide field observation for confirmation of supporting materials for foundation elements such as retaining wall foundations and light pole excavations. Field density testing will be performed by an engineering technician or equivalent certified in the use of a nuclear gauge. The tests will be presented in accordance with ASTM D6938, D2950, and ASTM D1557.

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Terra Linda High School Commons

Description	Units	Rate	Total
Staff Engineer – Material Sampling & Travel	4 hours	\$130.00	\$520.00
CAM 17 Tests (1 per 250 CY Off-Haul)	2 each	\$143.75	\$287.50
Gas, Diesel & Motor Oil TPH	2 each	\$77.05	\$154.10
Pesticides & PCB's	2 each	\$159.85	\$319.70
VOC's	2 each	\$126.50	\$253.00
SVOC's	2 each	\$230.00	\$460.00
Geotechnical Engineer – Letter Preparation	2 hours	\$180.00	\$360.00
Grand Total			\$2,354.30

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District-Wide Electric Vehicle Charging Station Installation Project

BAHIA VISTA EV CHARGING STATIONS

SAN RAFAEL, CALIFORNIA

CEL #40-06399PW

PRICING

Description	Quantity	Unit Rate	Subtotals	
REINFORCED CONCRETE - 1 POUR				
Mix Design Review	1 Each	\$ 250.00	\$ 250.00	
Reinforcing Steel	4 Hours	\$ 85.50	\$ 342.00	
ACI Concrete Sampling Technician	4 Hours	\$ 85.50	\$ 342.00	
Concrete Compression Tests	3 Cylinders / 1 Set	\$ 55.00	\$ 275.00	
Sample Pick-Ups	1 Trip	\$ 90.00	\$ 90.00	
SUBTOTAL:			\$	1,299.00
MISCELLANEOUS				
Final Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%			\$ 118.93	
SUBTOTAL:			\$	518.93
MAN-HOURS	8		GRAND TOTAL: \$	1,817.93

Basic of Charges: The proposed unit rates will be in effect through June 30, 2020. Thereafter, the unit rates are subject to an annual increase of four and one-half percent (4.5%) per year to mitigate the annual operating cost increases:

Work over 8 Hours per day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Swing or Graveyard Shift Premium	\$12.50 per Hour
Work from 0-4 Hours	4-Hour Minimum Billing
Work from 4-8 Hours	8-Hour Minimum Billing
Same-Day Service Call Requests	\$200.00/each
Show-Up Time	2-Hour Minimum Billing
Sample Pick-Up	\$90.00/Trip
Laboratory Testing - Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portal-to-Portal
Final Affidavit (per permit number)	
(request six working days advanced notice)	\$400.00
Extra Copies (over four per issue date) of Inspection Reports	
and Final Affidavit	\$20.00/each
Project Engineering and Management	7% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40-mile radius)	As Listed Below:
Travel Time	Basic Hourly Rate
Mileage	\$0.60/Mile
Per-Diem, including lodging	\$120.00/Day

QUANTITY DISCLAIMER:

This quote outlined herein was based on the following sources:

All scopes and durations provided by William Gong.

This proposal is limited to the scope of services, the number of inspection hours, and the number of associated tests identified herein. Any estimated quantities contained herein are estimates only and Client agrees to payment for services rendered in excess of the estimated quantities and/or cost figures as described herein.

It is recognized that additional services rendered herein under this proposal are schedule driven and are mandated by the scheduling and staffing of the contractor(s). Should items and quantities alter from estimates outlined herein, CEL shall be entitled to compensation for services rendered.

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**DAVIDSON MIDDLE SCHOOL EV CHARGING STATIONS
SAN RAFAEL, CALIFORNIA
CEL #40-06400PW**

PRICING

Description	Quantity	Unit Rate	Subtotals	
REINFORCED CONCRETE - 1 POUR				
Sampling and Tagging Reinforcing Steel	4 Hours	\$ 85.50	\$ 342.00	
Rebar Bend and Tensile Test	6 Each	\$ 99.30	\$ 595.80	
ACI Concrete Sampling Technician	4 Hours	\$ 85.50	\$ 342.00	
Concrete Compression Tests	3 Cylinders / 1 Set	\$ 55.00	\$ 275.00	
Sample Pick-Ups	1 Trip	\$ 90.00	\$ 90.00	
SUBTOTAL:			\$ 1,644.80	
MISCELLANEOUS				
Final Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%			\$ 143.14	
SUBTOTAL:			\$ 543.14	
MAN-HOURS	8		GRAND TOTAL: \$	2,187.94

Rate of Charges: The proposed unit rates will be in effect through June 30, 2020. Thereafter, the unit rates are subject to an annual increase of four and one-half percent (4.5%) per year to mitigate the annual operating cost increases:

Work over 8 Hours per day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Swing or Graveyard Shift Premium	\$12.50 per Hour
Work from 0-4 Hours	4-Hour Minimum Billing
Work from 4-8 Hours	8-Hour Minimum Billing
Same-Day Service Call Requests	\$200.00/each
Show-Up Time	2-Hour Minimum Billing
Sample Pick-Up	\$90.00/Trip
Laboratory Testing - Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portal-to-Portal
Final Affidavit (per permit number)	
(request six working days advanced notice)	\$400.00
Extra Copies (over four per issue date) of Inspection Reports and Final Affidavit	\$20.00/each
Project Engineering and Management	7% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40-mile radius)	As Listed Below:
Travel Time	Basic Hourly Rate
Mileage	\$0.60/Mile
Per-Diem, including lodging	\$120.00/Day

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SAN RAFAEL HIGH SCHOOL EV CHARGING STATIONS
SAN RAFAEL, CALIFORNIA
CEL #40-06401PW
PRICING

Description	Quantity	Unit Rate	Subtotals	
REINFORCED CONCRETE - 1 POUR				
Reinforcing Steel	4 Hours	\$ 85.50	\$ 342.00	
ACI Concrete Sampling Technician	4 Hours	\$ 85.50	\$ 342.00	
Concrete Compression Tests	3 Cylinders / 1 Set	\$ 55.00	\$ 275.00	
Sample Pick-Ups	1 Trip	\$ 90.00	\$ 90.00	
SUBTOTAL:			\$ 1,049.00	
MISCELLANEOUS				
Final Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%			\$ 101.43	
SUBTOTAL:			\$ 501.43	
MAN-HOURS		8	GRAND TOTAL: \$ 1,550.43	

Basis of Charges: The proposed unit rates will be in effect through June 30, 2020. Thereafter, the unit rates are subject to an annual increase of four and one-half percent (4.5%) per year to mitigate the annual operating cost increases:

Work over 8 Hours per day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Swing or Graveyard Shift Premium	\$12.50 per Hour
Work from 0-4 Hours	4-Hour Minimum Billing
Work from 4-8 Hours	8-Hour Minimum Billing
Same-Day Service Call Requests	\$200.00/each
Show-Up Time	2-Hour Minimum Billing
Sample Pick-Up	\$90.00/Trip
Laboratory Testing – Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portal-to-Portal
Final Affidavit (per permit number)	
(request six working days advanced notice)	\$400.00
Extra Copies (over four per issue date) of Inspection Reports	
and Final Affidavit	\$20.00/each
Project Engineering and Management	7% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40-mile radius)	As Listed Below:
Travel Time	Basic Hourly Rate
Mileage	\$0.60/Mile
Per-Diem, including lodging	\$120.00/Day

QUANTITY DISCLAIMER:
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All scopes and durations provided by William Gong.
This proposal is limited to the scope of services, the number of inspection hours, and the number of associated tests identified herein. Any estimated quantities contained herein are estimates only and Client agrees to payment for services rendered in excess of the estimated quantities and/or cost figures as described herein.
It is recognized that additional services rendered herein under this proposal are schedule driven and are mandated by the scheduling and staffing of the contractor(s). Should items and quantities alter from estimates outlined herein, CEL shall be entitled to compensation for services rendered.
In addition, Client recognizes that, on occasion, due to the schedule of the contractor or relevant subcontractors, occasional overtime may be required. CEL typically will have no notice of this until the day the said overtime occurs. Client agrees to compensate CEL for such overtime.

GLENWOOD ELEMENTARY EV CHARGING STATIONS
SAN RAFAEL, CALIFORNIA
CEL #40-06402PW
PRICING

Description	Quantity	Unit Rate	Subtotals	
REINFORCED CONCRETE - 1 POUR				
Reinforcing Steel	4 Hours	\$ 85.50	\$ 342.00	
ACI Concrete Sampling Technician	4 Hours	\$ 85.50	\$ 342.00	
Concrete Compression Tests	3 Cylinders / 1 Set	\$ 55.00	\$ 275.00	
Sample Pick-Ups	1 Trip	\$ 90.00	\$ 90.00	
SUBTOTAL:			\$ 1,049.00	
MISCELLANEOUS				
Final Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%			\$ 101.43	
SUBTOTAL:			\$ 501.43	
MAN-HOURS	8	GRAND TOTAL: \$ 1,550.43		

Basis of Charges: The proposed unit rates will be in effect through June 30, 2020. Thereafter, the unit rates are subject to an annual increase of four and one-half percent (4.5%) per year to mitigate the annual operating cost increases:

Work over 8 Hours per day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Swing or Graveyard Shift Premium	\$12.50 per Hour
Work from 0-4 Hours	4-Hour Minimum Billing
Work from 4-8 Hours	8-Hour Minimum Billing
Same-Day Service Call Requests	\$200.00/each
Show-Up Time	2-Hour Minimum Billing
Sample Pick-Up	\$90.00/Trip
Laboratory Testing - Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portal-to-Portal
Final Affidavit (per permit number)	
(request six working days advanced notice)	\$400.00
Extra Copies (over four per issue date) of Inspection Reports	
and Final Affidavit	\$20.00/each
Project Engineering and Management	7% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40-mile radius)	As Listed Below:
Travel Time	Basic Hourly Rate
Mileage	\$0.60/Mile
Per-Diem, including lodging	\$120.00/Day

QUANTITY DISCLAIMER:

This quote outlined herein was based on the following sources:

All scopes and durations provided by William Gong.

This proposal is limited to the scope of services, the number of inspection hours, and the number of associated tests identified herein. Any estimated quantities contained herein are estimates only and Client agrees to payment for services rendered in excess of the estimated quantities and/or cost figures as described herein.

It is recognized that additional services rendered herein under this proposal are schedule driven and are mandated by the scheduling and staffing of the contractor(s). Should items and quantities alter from estimates outlined herein, CEL shall be entitled to compensation for services rendered.

In addition, Client recognizes that, on occasion, due to the schedule of the contractor or relevant subcontractors, occasional overtime may be required. CEL typically will have no notice of this until the day the said overtime occurs. Client agrees to compensate CEL for such overtime.

SUN VALLEY ELEMENTARY EV CHARGING STATIONS
SAN RAFAEL, CALIFORNIA
CEL #40-06403PW
PRICING

Description	Quantity	Unit Rate	Subtotals	
REINFORCED CONCRETE - 1 POUR				
Reinforcing Steel	4 Hours	\$ 85.50	\$ 342.00	
ACI Concrete Sampling Technician	4 Hours	\$ 85.50	\$ 342.00	
Concrete Compression Tests	3 Cylinders / 1 Set	\$ 55.00	\$ 275.00	
Sample Pick-Ups	1 Trip	\$ 90.00	\$ 90.00	
SUBTOTAL:				\$ 1,049.00
MISCELLANEOUS				
Final Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%			\$ 101.43	
SUBTOTAL:				\$ 501.43
MAN-HOURS 8				GRAND TOTAL: \$ 1,550.43

Basis of Charges: The proposed unit rates will be in effect through June 30, 2020. Thereafter, the unit rates are subject to an annual increase of four and one-half percent (4.5%) per year to mitigate the annual operating cost increases:

Work over 8 Hours per day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Swing or Graveyard Shift Premium	\$12.50 per Hour
Work from 0-4 Hours	4-Hour Minimum Billing
Work from 4-8 Hours	8-Hour Minimum Billing
Same-Day Service Call Requests	\$200.00/each
Show-Up Time	2-Hour Minimum Billing
Sample Pick-Up	\$80.00/Trip
Laboratory Testing - Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portal-to-Portal
Final Affidavit (per permit number)	
(request six working days advanced notice)	\$400.00
Extra Copies (over four per issue date) of Inspection Reports	
and Final Affidavit	\$20.00/each
Project Engineering and Management	7% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40-mile radius)	As Listed Below:
Travel Time	Basic Hourly Rate
Mileage	\$0.60/Mile
Per-Diem, including lodging	\$120.00/Day

QUANTITY DISCLAIMER:

This quote outlined herein was based on the following sources:

All scopes and durations provided by William Gong.

This proposal is limited to the scope of services, the number of inspection hours, and the number of associated tests identified herein. Any estimated quantities contained herein are estimates only and Client agrees to payment for services rendered in excess of the estimated quantities and/or cost figures as described herein.

It is recognized that additional services rendered herein under this proposal are schedule driven and are mandated by the scheduling and staffing of the contractor(s). Should items and quantities alter from estimates outlined herein, CEL shall be entitled to compensation for services rendered.

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COLEMAN ELEMENTARY EV CHARGING STATIONS
SAN RAFAEL, CALIFORNIA
CEL #40-06404PW
PRICING

Description	Quantity	Unit Rate	Subtotals	
REINFORCED CONCRETE - 1 POUR				
Reinforcing Steel	4 Hours	\$ 85.50	\$ 342.00	
ACI Concrete Sampling Technician	4 Hours	\$ 85.50	\$ 342.00	
Concrete Compression Tests	3 Cylinders / 1 Set	\$ 55.00	\$ 275.00	
Sample Pick-Ups	1 Trip	\$ 90.00	\$ 90.00	
SUBTOTAL:			\$ 1,049.00	
MISCELLANEOUS				
Final Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%			\$ 101.43	
SUBTOTAL:			\$ 501.43	
MAN-HOURS	8		GRAND TOTAL: \$	1,550.43

Basis of Charges: The proposed unit rates will be in effect through June 30, 2020. Thereafter, the unit rates are subject to an annual increase of four and one-half percent (4.5%) per year to mitigate the annual operating cost increases:

Work over 8 Hours per day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Swing or Graveyard Shift Premium	\$12.50 per Hour
Work from 0-4 Hours	4-Hour Minimum Billing
Work from 4-8 Hours	8-Hour Minimum Billing
Same-Day Service Call Requests	\$200.00/each
Show-Up Time	2-Hour Minimum Billing
Sample Pick-Up	\$90.00/Trip
Laboratory Testing - Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portal-to-Portal
Final Affidavit (per permit number)	
(request six working days advanced notice)	\$400.00
Extra Copies (over four per issue date) of Inspection Reports	
and Final Affidavit	\$20.00/each
Project Engineering and Management	7% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40-mile radius)	As Listed Below:
Travel Time	Basic Hourly Rate
Mileage	\$0.60/Mile
Per-Diem, including lodging	\$120.00/Day

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**TERRA LINDA HIGH SCHOOL EV CHARGING STATIONS
SAN RAFAEL, CALIFORNIA
CEL #40-06405PW
PRICING**

Description	Quantity	Unit Rate	Subtotals	
REINFORCED CONCRETE - 1 POUR				
Reinforcing Steel	4 Hours	\$ 85.50	\$ 342.00	
ACI Concrete Sampling Technician	4 Hours	\$ 85.50	\$ 342.00	
Concrete Compression Tests	3 Cylinders / 1 Set	\$ 55.00	\$ 275.00	
Sample Pick-Ups	1 Trip	\$ 90.00	\$ 90.00	
SUBTOTAL:				\$ 1,049.00
MISCELLANEOUS				
Final Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%			\$ 101.43	
SUBTOTAL:				\$ 501.43
MAN-HOURS		8	GRAND TOTAL: \$	1,550.43

Base of Charges: The proposed unit rates will be in effect through June 30, 2020. Thereafter, the unit rates are subject to an annual increase of four and one-half percent (4.5%) per year to mitigate the annual operating cost increases:

Work over 8 Hours per day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Swing or Graveyard Shift Premium	\$12.50 per Hour
Work from 0-4 Hours	4-Hour Minimum Billing
Work from 4-8 Hours	8-Hour Minimum Billing
Same-Day Service Call Requests	\$200.00/each
Show-Up Time	2-Hour Minimum Billing
Sample Pick-Up	\$90.00/Trip
Laboratory Testing – Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portal-to-Portal
Final Affidavit (per permit number) (request six working days advanced notice)	\$400.00
Extra Copies (over four per issue date) of Inspection Reports and Final Affidavit	\$20.00/each
Project Engineering and Management	7% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40-mile radius)	As Listed Below:
Travel Time	Basic Hourly Rate
Mileage	\$0.60/Mile
Per-Diem, including lodging	\$120.00/Day

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SAN PEDRO ELEMENTARY EV CHARGING STATIONS
SAN RAFAEL, CALIFORNIA
CEL #40-06406PW
PRICING

Description	Quantity	Unit Rate	Subtotals	
REINFORCED CONCRETE - 1 POUR				
Reinforcing Steel	4 Hours	\$ 85.50	\$ 342.00	
ACI Concrete Sampling Technician	4 Hours	\$ 85.50	\$ 342.00	
Concrete Compression Tests	3 Cylinders / 1 Set	\$ 55.00	\$ 275.00	
Sample Pick-Ups	1 Trip	\$ 90.00	\$ 90.00	
SUBTOTAL:			\$ 1,049.00	
MISCELLANEOUS				
Final Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%			\$ 101.43	
SUBTOTAL:			\$ 501.43	
MAN-HOURS	8	GRAND TOTAL: \$ 1,550.43		

Basis of Charges: The proposed unit rates will be in effect through June 30, 2020. Thereafter, the unit rates are subject to an annual increase of four and one-half percent (4.5%) per year to mitigate the annual operating cost increases:

Work over 8 Hours per day	Time and One-Half
Work over 12 Hours, Monday through Friday	Double Time
Work on Saturdays	Time and One-Half
Work over 8 Hours on Saturdays	Double Time
Work on Sundays/Holidays	Double Time
Swing or Graveyard Shift Premium	\$12.50 per Hour
Work from 0-4 Hours	4-Hour Minimum Billing
Work from 4-8 Hours	8-Hour Minimum Billing
Same-Day Service Call Requests	\$200.00/each
Show-Up Time	2-Hour Minimum Billing
Sample Pick-Up	\$90.00/Trip
Laboratory Testing -- Rush Fee	Add 50% to Testing Cost
Technician with Nuclear Gauge	Portal-to-Portal
Final Affidavit (per permit number)	
(request six working days advanced notice)	\$400.00
Extra Copies (over four per issue date) of Inspection Reports and Final Affidavit	\$20.00/each
Project Engineering and Management	7% of Fees
Credit Card Payment of Fees	2.5% Premium
Reimbursables	Cost + 15%
QA/QC Plan Written Procedures	Quotation upon Request
Out of Area Services (beyond 40-mile radius)	As Listed Below:
Travel Time	Basic Hourly Rate
Mileage	\$0.60/Mile
Per-Diem, including lodging	\$120.00/Day

QUANTITY DISCLAIMER:

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All scopes and durations provided by William Gong.

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It is recognized that additional services rendered herein under this proposal are schedule driven and are mandated by the scheduling and staffing of the contractor(s). Should items and quantities alter from estimates outlined herein, CEL shall be entitled to compensation for services rendered.

In addition, Client recognizes that, on occasion, due to the schedule of the contractor or relevant subcontractors, occasional overtime may be required. CEL typically will have no notice of this until the day the said overtime occurs. Client agrees to compensate CEL for such overtime.

Scope of Services

REINFORCED CONCRETE

Mix Review

We will review the proposed concrete mixes in our laboratory for conformance with specifications.

Sample, Tag and Test Reinforcing Steel

Prior to fabrication of the steel, we will make a visit to the reinforcing steel supplier and collect mill certificates and sample reinforcing steel from the unbroken bundles. Testing will be as per American Society for Testing and Materials (ASTM) A615. Once the steel is ready for shipment, we will make another trip to the supplier and inspect to determine the steel has identical heat numbers to that already tested, and tag the steel so that it may be shipped to the job site.

Batch Plant Inspection

Our inspector will periodically check for batch weights, moisture content of aggregates, proper use of admixtures, and batching procedures.

Reinforcing Steel Placement

Will be performed by the Inspector of Record (IOR).

Concrete Placement

Will be performed by the IOR.

Concrete Sampling

Our inspector will be on-site to perform casting of (4x8) concrete cylinders for compression testing at a frequency of five cylinders for every 50 cubic yards placed.

Concrete Compression Testing

We will transport all samples to our laboratory for compression testing in strict accordance with ASTM requirements. Compression test reports will be distributed to the appropriate parties.

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Solar Canopy Structures – San Pedro Elementary School and Glenwood Elementary School

**SAN PEDRO ELEMENTARY - SOLAR
SAN RAFAEL, CALIFORNIA
CEL #10-55055PW**

PRICING

<i>Description</i>	<i>Quantity</i>	<i>Unit Rate</i>	<i>Subtotals</i>	
SOILS - GEOTECHNICAL ENGINEER OF RECORD AND SOIL OBSERVATION AND TESTING - PIERS				
Site reconnaissance, document review, transfer letter preparation, project management, field consultation, and report preparation.				
Technician - Half Days	16 Hours	\$ 110.00	\$ 1,760.00	
Observation and testing during site clearing and grading.				
Senior Engineer	2 Hours	\$ 180.00	\$ 360.00	
Technician - Full Time	16 Hours	\$ 110.00	\$ 1,760.00	
Lab, Max Density/Opt Moisture	2 Each	\$ 300.00	\$ 600.00	
SUBTOTAL:				\$ 4,480.00
REINFORCED CONCRETE - 1 POUR				
Mix Design Review	1 Each	\$ 250.00	\$ 250.00	
Sampling and Tagging Reinforcing Steel	4 Hours	\$ 85.50	\$ 342.00	
Rebar Bend and Tensile Test	6 Each	\$ 99.30	\$ 595.80	
Batch Plant Inspection	8 Hours	\$ 85.50	\$ 684.00	
ACI Concrete Sampling Technician	8 Hours	\$ 85.50	\$ 684.00	
Concrete Compression Tests	10 Cylinders /2 Sets	\$ 55.00	\$ 550.00	
Sample Pick-Ups	1 Trips	\$ 90.00	\$ 90.00	
SUBTOTAL:				\$ 3,195.80
STRUCTURAL STEEL				
Welding Procedure Specification Review	1 Each	\$ 250.00	\$ 250.00	
Shop Fabrication Inspection	160 Hours	\$ 91.96	\$ 14,713.60	
High Strength Bolt Assemblies	9 Each	\$ 260.00	\$ 2,340.00	
Field Welding Inspection - Bolting	24 Hours	\$ 91.96	\$ 2,207.04	
SUBTOTAL:				\$ 19,510.64
POST-INSTALLED ANCHORS				
Placement of Post-Installed Anchors	8 Hours	\$ 85.50	\$ 684.00	
Proofload or Torque Testing	8 Hours	\$ 85.50	\$ 684.00	
SUBTOTAL:				\$ 1,368.00
MISCELLANEOUS				
Final Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%			\$ 2,026.81	
SUBTOTAL:				\$ 2,426.81
MAN-HOURS 254				GRAND TOTAL: \$ 30,981.25

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**GLENWOOD ELEMENTARY - SOLAR
SAN RAFAEL, CALIFORNIA
CEL #10-37702PW
PRICING**

Description	Quantity	Unit Rate	Subtotals	
SOILS - GEOTECHNICAL ENGINEER OF RECORD AND SOIL OBSERVATION AND TESTING - PIERS				
Site reconnaissance, document review, transfer letter preparation, project management, field consultation, and report preparation.				
Technician - Half Days	16 Hours	\$ 110.00	\$ 1,760.00	
Observation and testing during site clearing and grading.				
Senior Engineer	2 Hours	\$ 180.00	\$ 360.00	
Technician - Full Time	16 Hours	\$ 110.00	\$ 1,760.00	
Lab, Max Density/Opt Moisture	2 Each	\$ 300.00	\$ 600.00	
SUBTOTAL:				\$ 4,480.00
REINFORCED CONCRETE - 1 POUR				
Mix Design Review	1 Each	\$ 250.00	\$ 250.00	
Sampling and Tagging Reinforcing Steel	4 Hours	\$ 85.50	\$ 342.00	
Rebar Bend and Tensile Test	6 Each	\$ 99.30	\$ 595.80	
Batch Plant Inspection	8 Hours	\$ 85.50	\$ 684.00	
ACI Concrete Sampling Technician	8 Hours	\$ 85.50	\$ 684.00	
Concrete Compression Tests	10 Cylinders /2 Sets	\$ 55.00	\$ 550.00	
Sample Pick-Ups	1 Trips	\$ 90.00	\$ 90.00	
SUBTOTAL:				\$ 3,195.80
STRUCTURAL STEEL				
Welding Procedure Specification Review	1 Each	\$ 250.00	\$ 250.00	
Shop Fabrication Inspection	160 Hours	\$ 91.96	\$ 14,713.60	
High Strength Bolt Assemblies	9 Each	\$ 260.00	\$ 2,340.00	
Field Welding Inspection - Bolting	24 Hours	\$ 91.96	\$ 2,207.04	
SUBTOTAL:				\$ 19,510.64
POST-INSTALLED ANCHORS				
Placement of Post-Installed Anchors	8 Hours	\$ 85.50	\$ 684.00	
Proofload or Torque Testing	8 Hours	\$ 85.50	\$ 684.00	
SUBTOTAL:				\$ 1,368.00
MISCELLANEOUS				
Final Affidavit	1 Per Permit	\$ 400.00	\$ 400.00	
Project Engineering and Management 7%			\$ 2,026.81	
SUBTOTAL:				\$ 2,426.81
MAN-HOURS 254				GRAND TOTAL: \$ 30,981.25

Scope of Services

The geotechnical portions of this project will be performed under the direction of CEL's Geotechnical Engineer, which will be the Geotechnical Engineer of Record for the project. A technician with a nuclear gauge will perform density and moisture testing in the field during grading, utility trench backfilling, and pavement operations utilizing the American Society for Testing and Materials (ASTM) D6938, and ASTM D1556 methods. Laboratory maximum density and optimum moisture determination will be performed in accordance with ASTM D1557 or D698. Asphalt pavement placement and testing will be performed in accordance with Caltrans methods. CEL will provide:

- Perform a site reconnaissance, review the geotechnical engineer report prepared for this project, review the drawings, and prepare a transfer of geotechnical engineer of record responsibility letter;
- Project management, consultation during construction, preparation of daily field,

- foundation excavation observation, and final grading reports;
- Observation and testing during site clearing and mass grading;
- Observing the foundations excavations for structures;
- Observation and testing during backfilling of utility trenches;
- Observation and testing during backfilling around retaining walls;
- Observation and testing during subgrade preparation and baserock placement in asphalt paved areas;
- Observation and testing during asphalt concrete placement.

Observation and testing will consist of visual observation of earthwork activities and taking field density and moisture tests for the purpose of ascertaining that the work is in substantial conformance with the contract documents. Such observation and testing shall not be relied upon by others as acceptance of the work nor shall it be construed to relieve the contractor in any way from his obligation and responsibilities under the construction contract. Specifically, but without limitations, observation and testing shall not require the technician and engineer to assume responsibilities for the means and methods of construction nor for safety on the job site.

REINFORCED CONCRETE - SCHOOLS

Mix Review

We will review the proposed concrete mixes in our laboratory for conformance with specifications.

Sample, Tag and Test Reinforcing Steel

Prior to fabrication of the steel, we will make a visit to the reinforcing steel supplier and collect mill certificates and sample reinforcing steel from the unbroken bundles. Testing will be as per American Society for Testing and Materials (ASTM) A615. Once the steel is ready for shipment, we will make another trip to the supplier and inspect to determine the steel has identical heat numbers to that already tested, and tag the steel so that it may be shipped to the job site.

Batch Plant Inspection

Our inspector will periodically check for batch weights, moisture content of aggregates, proper use of admixtures, and batching procedures.

Reinforcing Steel Placement

Will be performed by the Inspector of Record (IOR).

Concrete Placement

Will be performed by the IOR.

Concrete Sampling

Our inspector will be on-site to perform casting of (4x8) concrete cylinders for compression testing at a frequency of five cylinders for every 50 cubic yards placed.

Concrete Compression Testing

We will transport all samples to our laboratory for compression testing in strict accordance with ASTM requirements. Compression test reports will be distributed to the appropriate parties.

STRUCTURAL STEEL

Shop Inspection

- Review of welding procedure specifications;
- Material identification and mill certificate review;
- Observe the utilization of certified welders and approved welding procedures;
- Visual inspection of welding to determine compliance with contract documents;
- Nondestructive testing of moment welds and column splices;
- Confirm approximate preheat temperature;
- Continuous inspection of multi-pass fillet welds, groove welds and reinforcing steel welding.

Field Inspection

- Observe the utilization of certified welders and approved procedures;
- Confirm approximate preheat temperature;
- Nondestructive testing of moment welds and column splices;
- Inspect to determine and observe proper installation and tightening of high strength bolts;
- Visual inspection of welding to determine compliance with contract documents;
- Continuous inspection of multi-pass fillet welds, groove welds and reinforcing steel welding.

Metal Deck|Shear Studs

Intermittent visual inspection will be conducted for metal deck and shear stud welding.

High Strength Bolting

Prior to installation, our inspector will confirm the fastener components are properly stored. Our inspector will perform pre-installation verification testing daily where applicable to confirm the suitability of the completed fastener assembly and confirm the procedure and proper use by the bolting crew of the pretensioning method to be used. A representative sample of not fewer than three complete faster assemblies of each combination of diameter, length, grade and lot to be used shall be checked to confirm the proper pretension is achieved. Our inspector will then observe the pretensioning methods used are in accordance with the specifications and that joints are brought to a snug tight condition and then tightened systematically from the most rigid part of the joint. Our inspector will document the testing and observations performed and locations of accepted and rejected connections.

POST-INSTALLED ANCHORS

As required, we will perform visual examination of anchor placement to determine if post-installed anchor holes are clean, of the proper depth and diameter, and installed as specified by the manufacturer. In addition, we will perform proofload/torque testing of the anchors at the percentage defined by the plans and specifications.

NOTE: These estimates assume that adequate access will be provided for performing the work at maximum production, i.e., scaffolding. Should any anchor fail, additional tests will be required per plans.