

December 2, 2021

Silver Valley Unified School District

P.O. Box 847

Yermo, California 92398

File No.: C-1012

I.D. No.: 122101

Attention:

Robert Saffel, Senior Director of Technology, Maintenance and Operations

Project:

Yermo Elementary School, New Shade Structure, 38280 Gleason Street, Yermo,

California: NON-DSA

Subject:

Proposal for Geotechnical Engineering, Construction Materials Testing, and

Special Inspection Services

Reference:

USA Shade & Fabric Structures., Proposal Dated October 6, 2021

Ladies and Gentlemen:

We are pleased to present this proposal for geotechnical engineering, testing laboratory, and special inspection services that will be needed during construction of a new fabric shade structure at the Yermo Elementary School. The shade structure will be fabricated at the USA Shade & Fabric Structures, Inc., shop in Texas. We would retain the services of Steel Inspectors of Texas, Inc., to perform shop welding inspection in our behalf. We understand that the project will be exempt from DSA review. Based on our review of the referenced proposal and our experience with similar projects; the following tests/inspections will likely be required for this project.

- Foundation soil inspection (drilled pier excavation)
- Tag, identify, and sample reinforcing steel
- Laboratory testing of reinforcing steel, tension and bend
- Concrete batch plant inspection
- Fabrication of concrete test cylinders, including slump and temperature testing
- Compression testing of the concrete test cylinders, including pick up and curing
- Special inspection, shop material verification and welding, Texas

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Our fees are predicated on time consumption computed at the prevailing wage rates presented in our enclosed Schedule of Fees. Our estimate of fees to provide the above list of services is tabulated below:

FEE SUMMARY

Service	Estimated Hours/Tests	Hourly/Unit Rate	Estimated Fee
Foundation inspection, (inspect drilling operations)	8 hours	116.00*	928.00
Tag, identify, and sample reinforcing steel	4 hours	90.00	360.00
Laboratory test, reinforcing steel tensile	2 tests	60.00	120.00
Laboratory test, reinforcing steel bend	2 tests	60.00	120.00
Batch plant inspection	4 hours	90.00	360.00
ACI technician, fabrication of concrete test cylinders, including slump/temperature testing	4 hours	116.00*	464.00
Pick up concrete samples	4 hours	80.00	320.00
Compression testing of concrete test cylinders	4	27.50	137.50
Hold cylinder (not tested)	1	15.00	15.00
Special inspection, in-plant shop welding (fabrication in Texas by Steel Inspectors of Texas, Inc)			4,800.00
Staff engineer (supervision/report preparation)	1 hour	125.00	125.00
Principle engineer (report review/signature)	1 hour	190.00	190.00
Total:			\$7 939 50

Total: \$7,939.50

(field vehicle and testing equipment included in hourly rates)

Our fee estimates are based on the parameters tabulated above. Should the contractor's construction schedule or the testing frequency required by the project plans differ from those indicated, the actual fees would likely differ from our estimate. Additional services (if needed) that were not listed above would be performed on an on-call basis at the unit rates presented on the enclosed Schedule of Fees.

^{*} Indicates prevailing wage

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Our Schedule of Fees is considered a part of this proposal and will be used in invoicing for all services. Premium pay rates are required for time in excess of 8 hours in any day, for time in excess of 40 hours in any week, and for Saturday work. Holiday and Sunday work would be charged at double time.

If the scope of services and estimated fee are acceptable, please sign one copy of this proposal and forward the signed copy to this office. If preferred, you may forward your purchase order or a copy of your consultant agreement to this office for our signature.

We appreciate the opportunity to provide you with this proposal. Should there be questions, please feel free to contact this office.

Respectfully submitted,

JOHN R. BYERLY, INC.

John R. Byerly, P.E.

President

JRB:LA:jet

R.E. No. GE179, Exp. 6/30/23

R.E. No. C15871, Exp. 6/30/23

P.O. and/or Project No.

Name of Client (Print)

Authorized Signature

Date

Enclosure: Schedule of Fees



SCHEDULE OF FEES

APRIL 8, 2021



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SCHEDULE OF FEES FOR GEOTECHNICAL SERVICES

PROFESSIONAL PERSONNEL		Regular Rate	Prevailing Wage Rate
Principal Engineer	. Per Hr	\$ 190.00	
Project Engineer	. Per Hr	150.00	
Project Geologist	. Per Hr	150.00	
Staff Engineer	. Per Hr	125.00	
Staff Geologist	. Per Hr	125.00	
Expert Witness Preparation	. Per Hr	190.00	
Expert Witness Testimony (at trial or deposition)	. Per Hr	300.00	
FIELD PERSONNEL			
Field Technician (including density testing)	. Per Hr	90.00	116.00
Supervising Field Technician	. Per Hr	125.00	
Staff Engineer	. Per Hr	125.00	
Field Exploration Equipment	. Local Pro	evailing Rate	+ 20%
Subsistence		Quotation	
GEOTECHNICAL LABORATORY TESTING Laboratory Technician Supervising Laboratory Technician			
Atterberg Limits			
Liquid Limit	. Each	80.00	
Plastic Limit	. Each	90.00	
Shrinkage Limit	. Each	100.00	
Plasticity Index	. Each	170.00	
California Bearing Ratio - CBR			
(at specified moisture content - does not include optimum			
moisture content and maximum dry density determination)	. Each	450.00	

Geotechnical Laboratory Testing (continued)		Regular Rate	Prevailing Wage Rate
Consolidation Testing (without time rate)	Each	 \$ 200.00	
Add one time rate	Each	 90.00	
Corrosion Tests			
pH	Each	 45.00	
Minimum Resistivity	Each	 45.00	
Sulfate	Each	 45.00	
Chloride	Each	 45.00	
Redox Potential	Each	 45.00	
Sulfide	Each	 45.00	
Corrosion Series	Each	 250.00	
Direct Shear Tests (3-point)	Each	 250.00	
Direct Shear Tests - Residual (per point)	Point	 140.00	
Expansion Index	Each	 150.00	
Expansion Study (3 points remolded)			
(maximum density not included)	Each	 340.00	
Grain Size Analysis (Gradation)			
Sieve Analysis (including wash passing No. 200 sieve)	Each	 130.00	
Sieve Analysis Plus Hydrometer	Each	 250.00	
% Passing No. 200 Sieve	Each	 60.00	
Optimum Moisture and Maximum Dry Density			
Lab Max – (4-inch mold)	Each	 180.00	
Lab Max – (6-inch mold)	Each	 200.00	
Lab Max – California 216 Method	Each	 200.00	
Organic Content	Each	 60.00	
Moisture Content	Each	 30.00	
Moisture/Density Determination – Tube Sample	Each	 45.00	
"R" Value			
Untreated Material	Each	 285.00	
Lime or Cement Treated Material	Each	 300.00	
Sand Equivalent (average of 4)	Each	 120.00	

SPECIAL INSPECTION SERVICES

INSPECTION FEES	_	Regular Rate	Prevailing Wage Rate
Aggregate, Plant Sampling	Hour	\$ 90.00	\$ 116.00
Asphalt, Paving	Hour	90.00	116.00
Asphalt, Batch Plant		90.00	116.00
Commercial Building Inspection (Wood Framing, ICC)	Hour	90.00	116.00
Concrete, Batch Plant	Hour	90.00	
Concrete, Placing	Hour	90.00	116.00
Concrete, Placing Pre-Stress	Hour	90.00	116.00
Concrete, Pre and Post-Tensioning	Hour	90.00	116.00
Drilled Piers or Piles	Hour	90.00	116.00
Driven Piles		90.00	116.00
Field Welding, Structural Steel (AWS-CWI, AWS-ACWI and ICC)	Hour	95.00	116.00
Fireproofing Inspection	Hour	90.00	116.00
Ground Rod	Hour	100.00	128.00
Gunite, Placing	Hour	90.00	116.00
Hi-Tensile Bolting		90.00	116.00
Magnetic Particle Testing	Hour	120.00	140.00
Masonry Placing Inspection		90.00	116.00
Pachometer Meter Reinforcing Steel Locator		100.00	130.00
Pull Tests of Anchor Bolts/Dowels	Hour	95.00	120.00
Reinforcing Steel, Placing	Hour	90.00	116.00
Schmidt Concrete Hammer		100.00	125.00
Shop Welding Fabrication (AWS-CWI, AWS-ACWI and ICC)	Hour	95.00	
Skidmore Testing	Hour	150.00	200.00
Special Inspector		90.00	116.00
Tag, Identify, and Sample Rebar or Structural Steel		90.00	116.00
Torque Testing of High Strength Bolts		95.00	120.00
Ultrasonic Testing		120.00	140.00
Witness Installation of High Strength Bolts	Hour	90.00	116.00

MATERIALS TESTING SERVICES

AGGREGATE TEST

Absorption Each	
Clay Lumps and Friable Particles Each Each	75.00
Cleanness Value (Fine or Coarse) Each	125.00
Decantation (No. 200) Each	35.00
Deleterious Substances Determination Each	115.00
Durability Test (Fine or Coarse) * Each	165.00
Fineness Modulus (Including Sieve Analysis) Each	130.00
Flat and Elongated Pieces (Per Size Fraction) Each	105.00
Fractured Faces (Per Size Fraction) Each	105.00
Light Weight Particles Each	135.00

Aggregate Test (continued)		Regular Rate	Prevailing Wage Rate
Los Angeles Rattler	Each	 \$ 230.00	
Moisture	Each	 30.00	
Organic Impurities	Each	 55.00	
Percent Clay in Sands by Hydrometer		180.00	
Percent Passing No. 200 Sieve		50.00	
Percent Shale		95.00	
Permeability of Granular Soil (ASTM D 2434)	Each	 225.00	
Potential Reactivity (Chemical Method)	Each	 Quotation	1
Sand Equivalent		120.00	
Sieve Analysis (Fine or Coarse - Processed)		80.00	
Sieve Analysis (Pit Run)	Each	 130.00	
Soft Particles	Each	 95.00	
Soundness of Sodium Sulfate (Fine or Coarse)	Each	 325.00	
Specific Gravity (Fine or Coarse)	Each	 75.00	
Voids	Each	 65.00	
Weight Per Cubic Foot	Each	 75.00	
Deposit Evaluation		Quotation	1
ASPHALT PAVING MATERIALS			
Asphalt Paving Inspection		\$ 90.00	\$ 116.00
Plant Control during Operations		90.00	
Coring with Diamond Bit (Includes Bit Charge)(Contractor to provide access)		140.00	160.00
Density of Cores		45.00	
Film Stripping		80.00	
Los Angeles Rattler		230.00	
Laboratory Standard Density (Marshall)		200.00	
Laboratory Standard Density (Hveem)		200.00	
Moisture Vapor Susceptibility		Quotation	1
Mix Design		135.00	
Mix Design Studies (Marshall or Hveem)		450.00	
Pavement Evaluation		 Quotation	1
Plant Sample - % Asphalt, Ignition Oven		145.00	
Plant Sample - % Asphalt and Gradation, Ignition Oven		230.00	
Ignition Oven Aggregate Correction		180.00	
Sand Equivalent		120.00	
Sieve Analysis		80.00	
Soundness Test (Sodium Sulfate) (Fine or Coarse)		325.00	
Stability Test - "S" Value (Hveem Method)		250.00	
Stability Test (Marshall Method - Set of 3)		250.00	
Theoretical Maximum Specific Gravity (Rice)		150.00	
Thickness of Pavement	⊨ach	 15.00	

CONCRETE		Regular Rate	Prevailing Wage Rate
Absorption – Concrete Pipe or Tile (ASTM C497)	Each	\$ 30.00	
Batch Plant Inspection		90.00	
Concrete Placing Inspection		90.00	116.00
Coring (Includes Bit Charge)		140.00	160.00
Coring Assistant (Required for Work from Ladder or Scaffolding)		90.00	116.00
Field Technician		90.00	116.00
Molding Cylinders and Beams	Hour	90.00	116.00
Pachometer Reinforcing Steel Locator		100.00	130.00
Pick up Cylinders		80.00	
Pre-Stress and Post-Tensioning Inspection		90.00	116.00
Schmidt (Rebound) Hammer		100.00	125.00
Compression Test – 6"x12" and 4"x8" Cylinders		27.50	
Hold Cylinders (Not Tested)		15.00	
Compression Test – Concrete or Shotcrete Cores			
8" Maximum Diameter	Each	30.00	
Compression Test – Shotcrete - 6"x12" and 4"x8" Cylinders		40.00	
Compression Test – Gypsum Cylinders		30.00	
Gypsum Cylinders – Dried to Constant Weight		22.00	
Mix Designs			
First Design (Exclusive of Aggregate Tests)	Each	120.00	
Additional Design (Same Report)		90.00	
Review of Mix Design		120.00	
Modulus of Elasticity – 6"x12" Cylinders		125.00	
Modulus of Rupture (Flexure) – 6"x6" Beams		80.00	
Moisture Vapor Kit		25.00	
Saw-Cutting Samples for Testing (If Required)		10.00	
Shrinkage Test (Set of 3)		450.00	
Slump Cone (Refundable upon Return of Cone)		50.00	
Splitting Tensile Test		50.00	
Trial Batch in Laboratory			
(Including Air Content, Unit Weight Water Demand,			
Slump and Strength Determinations			
(1 at 7 days and 2 at 28 days)	Each	450.00	
Unit Weight of Cylinders		25.00	
* No charge if cylinder returned to us for testing			
FIREPROOFING TESTS			
Compression	Each	\$ 45.00	
Cohesion/Adhesion	Each	45.00	
Density	Each	40.00	
Dry Film Fireproofing Testing		120.00	\$ 140.00
Fireproofing Inspection		85.00	113.00

CONCRETE MASONRY UNIT (CMU) AND BRICK			Regular Rate	Prevailing Wage Rate
Coring (Includes Bit Charge)	Hour	-	\$ 140.00	\$ 160.00
Coring Assistant (Required for Work from Ladder or Scaffolding)	Hour		90.00	116.00
In-Place Shear Testing			90.00	116.00
Masonry Placing Inspection	Hour		90.00	116.00
Molding Grout and Mortar	Hour		90.00	116.00
Pickup Grout and Mortar Samples	Hour		80.00	
Sample Masonry Units	Hour		90.00	
CMU, Compression	Each		45.00	
CMU, 24-Hour Absorption	Each		40.00	
CMU, Moisture Content	Each		40.00	
CMU, Density (Unit Weight)	Each		30.00	
CMU, Lineal Shrinkage (Rapid Method)			90.00	
CMU, Dimensions			20.00	
CMU, C140 Complete Testing	Each		650.00	
Brick, Compression	Each		35.00	
Brick, 24-Hour Absorption			40.00	
Brick, 5-Hour Absorption			40.00	
Brick, Modulus of Rupture	Each		35.00	
Grouted Masonry Prism Compression			175.00	
Hydraulic Conductivity (Permeability) (ASTM D 5084)			350.00	
Mortar and Grout Specimens, Compression			30.00	
Masonry Cores, Compression 8" Maximum Diameter			50.00	
Masonry Cores, Shear 8" Maximum Diameter			70.00	
Tensile Test – CMA Method			160.00	
Saw-Cutting Samples for Testing (If Required)			10.00	
Unit Weight of Units			25.00	
Mortar Cement Permeable Voids (ASTM C642)	Each		75.00	
REINFORCING AND STRUCTURAL STEEL				
Anchor Bolts				
Bolt – Hardness Only	Each			
Bolt – Wedge Tensile (Up to 100,000 lbf)			100.00	
Hi-Strength Bolting			90.00	\$ 116.00
Field Welding Inspection (AWS-CWI, (AWS-ACWI), and ICC)			90.00	116.00
Magnetic Particle Testing			120.00	140.00
Nut – Hardness (Proof Load Under 100,000 lbf)			45.00	
Nut – Hardness (Proof Load Between 100,000 – 150,000 lbf)			55.00	
Shop Welding (AWS-CWI, AWS-ACWI, and ICC)			95.00	
Skidmore Testing			150.00	200.00
Tag, Identify, and Sample Reinforcing Steel			90.00	
Tag and Identify Structural Steel	Hour		90.00	116.00

John R. Byerly, Inc. April 8, 2021

Reinforcing and Structural Steel (continued)		Regular Rate	Prevailing Wage Rate
Tension and Elongation (Reinforcing Steel)	_		
No. 11 or Smaller		60.00	
No. 14		120.00	
No. 18 (Proof Test)		120.00	
Ultrasonic Testing	Hour	\$ 120.00	\$ 140.00
Washer - Hardness		35.00	
Welder's Qualification Test – AWS and ASME Procedures		Quotation	1
Bend Test (Reinforcing Steel)		60.00	
Welded Wire Mesh Bend Test	Each	60.00	
Welded Wire Mesh Shear Test		60.00	
Tension (Structural Steel)	Each	60.00	
Bend Test (Structural Steel)		60.00	
Torque Testing of High Strength Bolts	Hour	95.00	120.00
Witness Installation of High Strength Bolts	Hour	90.00	116.00
Machining Coupons for Test (Tensile or Bend)		Quotation	1
Sample Roof Tile	Each Each	\$ 85.00 50.00 50.00 70.00	
TESTING MACHINE - 400,000 LB. UNIVERSAL			
Machine with Operator		\$ 275.00	
Additional Technician	Hour	75.00	
MISCELLANEOUS			
Expert Witness Testimony	Hour	\$ 300.00	
Expert Witness Preparation		190.00	
Modular Construction, Inspection and Certification		90.00	\$ 116.00
Roof Tests and Inspection		90.00	116.00
Structural Failure Investigation		Quotation	
Verification of Fabricator's Quality Control Capabilities		Quotation	
Welder Qualification Test		Quotation	
Glue Laminated Structural Lumber			

ALL REPORTS ARE REVIEWED BY REGISTERED CIVIL ENGINEERS APPROVED BY THE STATE OF CALIFORNIA, DIVISION OF STATE ARCHITECTURE

CONDITIONS AND WORKING HOURS

Minimum Charges

There will be no minimum charges for inspection services. Other than late cancellation fees, client will be charged only for time spent on-site plus applicable travel time

Travel Time Travel time from Bloomington to site of work and return will be charged at applicable hourly rate.

Clerical Time Clerical time for report preparation is included in the hourly and unit rates for inspectors and

testing. There will be no additional charge for clerical preparation of reports.

First 8 hours, Monday through Friday between 6 a.m. and 5 p.m. **Regular Time**

Time and One-Half First 12 hours on Saturday Monday through Friday after first 8 hours through 12 hours of shift or for hours worked

between 5 p.m. and 6 a.m.

Double Time All day Sunday and after first 12 hours Monday through Saturday.

Holidays: New Year's, Memorial, Independence, Labor, Veterans, Thanksgiving, Day after

Thanksgiving, Christmas Day.

Prevailing Wage Projects

Separate rates are provided for those projects where SB 1999 prevailing wage requirements are applicable. Our prevailing wage rates will increase in consistence with predetermined increases mandated by the California Department of Industrial Relations.

Parking When not furnished for Inspector, parking will be charged as paid by the Inspector.

Agency Approval of **Special Inspectors**

Agency (e.g. Building and Safety Department) fees for approval or registration of special inspectors for a specific job will be charged to the client with no mark-up. Inspector's time to submit qualifications for agency approval will be charged at straight time rate.

Subsistence

On remote jobs, subsistence, when not furnished for Inspector, will be charged by Quotation.

Completion

Inspector will remain on job until discharged by competent authority.

Cancellation

No charge if made before 3:00 p.m. of the preceding day. If cancellation is received after 3:00 p.m. of the previous day, a late cancellation fee equivalent to 2 hours of requested inspection service may be charged.

Terms of Payment

Fees charged are for professional and technical services and are due on presentation. If not paid within 30 days from date of invoice, they are considered past due and a finance charge of 1-1/2% per month will be added to the unpaid balance (APR 18%). Any invoice under \$100.00 will be C.O.D.

All invoice errors or necessary corrections shall be brought to the attention of the company within fifteen (15) days of receipt of invoice; thereafter customer acknowledges invoices are correct and valid. John R. Byerly, Inc. reserves the right to terminate its services to a customer without notice if all invoices are not current. Upon such termination of services, the entire amount accrued for all services performed shall immediately become due and payable. Customer waives any and all claims against John R. Byerly, Inc., its subsidiaries, affiliates, servants and agents, for termination of work on account of these terms.

Terms of Payment Continued

Should it be necessary to refer a past-due account to an attorney, to file suit for collection, or to file suit to collect mechanics lien, customer agrees to pay all reasonable expenses and costs incurred thereby, including reasonable attorney fees and costs. Jurisdiction and venue shall be in San Bernardino County, State of California.

Limitation of Liability

It is agreed that Client will limit any and all liability, claims for damages, costs of defense, or expenses to be levied against the Geotechnical Engineer on account of any design defects, errors or omissions of professional negligence to a sum not to exceed \$75,000.00 or the amount of their fee, whichever is greater. Client agrees to notify any contractors or subcontractors who may perform work in connection with any design, reports or studies prepared by Geotechnical Engineer of such limitation of liability for design, defects, errors, omissions or professional negligence and requires as a condition precedent to their performing the work a like limitation of liability on their part as against the Geotechnical Engineer. In the event Client fails to obtain a like limitation of liability provision as to design defects, errors, omissions or professional negligence, any liability of the Client and the Geotechnical Engineer to such contracts or subcontracts arising out of an alleged defect, error or omission or professional negligence shall be allocated between the Client and the Geotechnical Engineer in such a manner that the aggregate liability for damages for such design defects to all parties, including the Client, shall not exceed \$75,000.00 or the amount of the Geotechnical Engineer's fee, whichever is greater.

REPORTS

Minimum charge for all special testing.	\$	100.00
Minimum charge for all special research		25.00
Added charge for reproduction and mailing services for the report covering the research	.1	5 per sheet
Blueprints or other outside services	(Cost + 20%

Principal engineer time will be charged for preparation of each report.