

Geo-Advantec Inc.

G *Geotechnical Engineering*

A *Earthquake Engineering*

I *Inspection and Testing*

I *Engineering Geology*

PROPOSAL FOR TESTING AND INSPECTION SERVICES

PROJECT:

**BOWMAN HIGH SCHOOL PEDESTRIAN BRIDGE/RAMP AND FIRE
ALARM SYSTEM UPGRADE**

FOR

WILLIAM HART UNIFIED SCHOOL DISTRICT



William S. Hart
Union High School District

PREPARED BY:

GEO-ADVANTEC INC.

457 W. ALLEN AVE, STE. 113

SAN DIMAS, CALIFORNIA 91773

PROPOSAL NO. 17-1066

APRIL 4, 2017

Geo-Advantec Inc.

Geotechnical Engineering. Earthquake Engineering. Engineering Geology

April 4, 2017
Proposal No: 17-1066

Mr. Michael Otavka
Director of Facilities, Planning & Construction
Wm. S. Hart Union High School District
21380 Centre Pointe Parkway
Santa Clarita, CA 91350

SUBJECT: Proposal for Bowman High School Pedestrian Bridge/Ramp and Fire Alarm
System Upgrade
Santa Clarita, California

Dear Mr. Otavka,

Geo-Advantec, Inc., (GAI) appreciates the opportunity to submit this proposal to provide the Wm. S. Hart Union High School District (WHUSD) with all the required geotechnical and materials special inspection services for construction of the subject project.

GAI ensures that our services will meet the requirements of applicable codes, regulations, ordinances, guidelines, and project documents.

Included in this submittal is our understanding about the project, a breakdown of estimated budget for the inspection and testing services, our hourly rates and the company's master fee schedule for this project.

We look forward to the opportunity to working with the WHUSD on this and future upcoming projects. If there are any questions please do not hesitate to contact the undersigned at (909) 305-0400 or SAriannia@GeoAdvantec.com.

Regards,

A handwritten signature in blue ink, appearing to read "SHAWN", followed by a horizontal line and a small flourish.

Shawn Ariannia, Ph.D., P.E., G.E.
President

1. PROJECT UNDERSTANDING

Based on the review performed on the available project manual and T&I sheet, it is our understanding that the project involves the construction of a cast-in-place pedestrian bridge with related ramps and walkways. The bridge is concrete with steel tresses. We will perform inspection and testing for the concrete poured for the bridge and associated walkways. We assume that these will be poured at one time. We will perform inspection for the fabrication of the steel tresses, and we will verify the certifications for the weld filler material markings and manufacturers certificate of compliance. There will be no soil inspections included in our scope of work per the T and I sheet.

2. ESTIMATED BUDGET AND BREAKDOWN

The following "Table 1" provides cost breakdown and our estimate for the subject project. The unit rates are included in the Table. The hourly rates for inspectors and technicians are based on prevailing wage rates. The master fee schedule for our company is provided as an attachment to this submittal.

TABLE-Estimated Hourly Budget Breakdown

Description	Quantity	Unit	Unit Rate	Total Amount
MATERIALS SPECIAL INSPECTION				
Concrete Inspection	8	Hourly	\$ 88.00	\$ 704.00
Batch Plant Inspection	4	Hourly	\$ 88.00	\$ 352.00
Steel Fabrication Inspection	32	Hourly	\$ 88.00	\$ 2,816.00
TOTAL ESTIMATED FEES FOR MATERIALS SPECIAL INSPECTION				\$ 3,872.00
MATERIALS LABORATORY TESTING/SERVICES				
Compressive Strength of Concrete-ASTM C39	6	Test	\$ 25.00	\$ 150.00
Tensile and Bend test on Rebars-# 11 and smaller	3	Test	\$ 35.00	\$ 105.00
Verification of steel tests	Estimate			\$ 500.00
Sample pick-up	2	Hourly	\$ 50.00	\$ 100.00
Any specific/special test to be performed in other DSA approved lab (Sub to Geo-Advantec)	The cost+5% markup			
Mix Design Reviews	1	Report	\$ 100.00	\$ 100.00
Registered Civil Engineer	2	Hours	\$ 125.00	\$ 250.00
Final Report - Issuance of DSA-291 (interims and final)	1	Report	\$ 100.00	\$ 100.00
TOTAL ESTIMATED FEES FOR MATERIALS INSPECTION AND TESTING				\$ 1,305.00
TOTAL ESTIMATE OF PROJECT INSPECTION AND TESTING				\$ 5,177.00

ATTACHMENT
MASTER SCHEDULE OF RATES

<u>ENGINEERING SERVICES</u>				
ENGINEERING AND PROFESSIONAL SERVICES				
Principal Geotechnical Engineer/Principal Engineering Geologist		\$	175.00	Per Hour
Senior Geotechnical Engineer/ Senior Engineering Geologist		\$	135.00	Per Hour
Registered Civil Engineer		\$	135.00	Per Hour
Project Manager		\$	90.00	Per Hour
Staff Engineer/Staff Geologist/Field Engineer		\$	75.00	Per Hour
<u>INSPECTION SERVICES</u>				
GEOTECHNICAL MONITORING				
DURING CONSTRUCTION TESTING AND INSPECTION SERVICES				
Soil Technician / Field Engineer (Prevailing Wage)		\$	88.00	Per Hour
Technician / Field Engineer – Pile Monitoring & Inspection (Prevailing Wage & Regular Wage)		\$	88.00	Per Hour
Deputy Grading Inspector (City of LA)		\$	88.00	Per Hour
Nuclear Gauge Equipment		\$	40.00	Per Day
MATERIALS SPECIAL INSPECTION				
Inspector/Concrete, Batch Plant Inspection		\$	88.00	Per Hour
Inspector/Masonry		\$	88.00	Per Hour
Inspector/Welding/Steel/Tagging & Sampling		\$	88.00	Per Hour
Inspector/Post-Tension		\$	88.00	Per Hour
Inspector/Fireproofing		\$	88.00	Per Hour
Inspector/UT		\$	95.00	Per Hour
<u>REPORTS</u>				
Soils (Geotechnical/Geohazard Evaluation) Report				Varies - Lump Sum
DSA-291 or 293 Report		\$	250.00	Each Certificate
Pad Certificate Report		\$	1,000.00	Each
Laboratory Report Review Letter (Stamped)		\$	300.00	Each
<u>LABORATORY AND MATERIAL TESTING</u>				
SOIL AND AGGREGATE				
CLASSIFICATION & PHYSICAL CHARACTERISTICS				
ASTM	CTM			
C29	CT212	Unit Weight	\$	25.00 Each
D4829		Expansion Index	\$	125.00 Each
C117, D1140		Finer than #200 Wash	\$	50.00 Each
C136	CT202	Sieve Analysis- Coarse & Fine Including Wash Aggregate	\$	140.00 Each
C136	CT202	Sieve Analysis- Coarse Aggregate	\$	110.00 Each
C136	CT202	Sieve Analysis- Fine Including Wash Aggregate	\$	110.00 Each
D1140, D422		Particle-Size Distribution - Sieve Analysis + Hydrometer Combined	\$	185.00 Each
D422		Hydrometer Analysis only	\$	125.00 Each
D4318		Atterberg Limits LL, PL, & PI of Soils	\$	125.00 Each
D2435		Consolidation	\$	125.00 Each
D2419	CT217	Sand Equivalent Value of Soil and Fine Aggregate (Set of Three)	\$	100.00 Each Set
C127	CT206	Specific Gravity and Absorption (Coarse Aggregate)	\$	65.00 Each
C127	CT206	Absorption Only, Coarse Aggregate	\$	90.00 Each
C128	CT207	Specific Gravity and Absorption (Fine Aggregate)	\$	160.00 Each
C128	CT207	Absorption Only, Fine Aggregate	\$	90.00 Each
D854	CT203	Specific Gravity (Soil) by Hydrometer (Water Pycnometer)	\$	140.00 Each
D2216		Water Moisture Content	\$	20.00 Each
D3080		Direct Shear (3 Points)	\$	250.00 Each

LABORATORY AND MATERIAL TESTING				
SOIL AND AGGREGATE				
CLASSIFICATION & PHYSICAL CHARACTERISTICS				
ASTM	CTM			
D3080		Direct Shear Remolded sample (3 points)	\$ 300.00	Each
D1557-A,B		Maximum Density 4 in. Mold Passing No.4 or 3/8 in. Sieve	\$ 140.00	Each
D1557-C		Maximum Density 6 in. Mold Passing or 3/4 in. Sieve	\$ 150.00	Each
D2844	CT301	R-Value (3 Points)	\$ 300.00	Each
D2844	CT301	R-Value, Untreated Material	\$ 280.00	Each
D2844	CT301	R-Value, Treated Material	\$ 300.00	Each
D4791		Flat and Elongated Particles	\$ 180.00	Each
	CT 229	Durability Index (fine and coarse) in Aggregate	\$ 250.00	Each
	CT 229	Durability Index (fine or coarse) in Aggregate	\$ 160.00	Each
C142		Clay Lumps and Friable Particles in Aggregate	\$ 150.00	Each
C40		Organic Impurities in Fine Aggregates for Concrete	\$ 140.00	Each
	CT205	Percentage of Crushed Particles	\$ 180.00	Each
C131	CT211	Los Angeles Rattler Test, (Abrasion Testing Machine), Small-Size	\$ 275.00	Each
C535	CT211	Los Angeles Rattler Test, (Abrasion Testing Machine), Large-Size	\$ 350.00	Each
SOIL AND AGGREGATE (CONTINUED)				
ASTM	CTM			
C88	CT214	Sodium/Magnesium Sulfate Soundness of Aggregate, Per Sieve	\$ 90.00	Each
	CT216	Soil Impact (Tests for Relative Compaction of Soils & Aggregates)	\$ 180.00	Each
	CT216	Soil Impact- Check Point	\$ 140.00	Each
C227	CT227	Cleanness Value of Coarse Aggregate	\$ 190.00	Each
CHEMICAL PROPERTIES				
	CTM			
	643	Resistivity	\$ 75.00	Each
	643	pH	\$ 50.00	Each
	417	Sulphate	\$ 60.00	Each
	422	Chloride	\$ 60.00	Each
	643, 417, 422	Corrosivity Series	\$ 185.00	Each
CONCRETE				
ASTM	CTM			
C39	CT521	Compression Tests, 6x12 and/or 4x8 Cylinders	\$ 25.00	Each
C495		Compression, Lightweight Insulating Concrete	\$ 45.00	Each
C42		Concrete Cores, Compression (excludes sampling)	\$ 35.00	Each
C42		Drilling Cores from Shotcrete Panel (Lab)	\$ 75.00	Each
C109		Compression, Hydraulic Cement, Mortar 2" Cube Specimen	\$ 45.00	Each
C496		Splitting Tensile Strength 6"x12" Cylinder	\$ 90.00	Each
C293/C78	CT523	Flexural Strength Test (6"x6"x21" Beam)	\$ 130.00	Each
C157		Drying Shrinkage (Set of 3)	\$ 360.00	Each
C138		Unit Weight of Concrete Cylinders	\$ 45.00	Each
C192		Review of Existing Mix Design	\$ 100.00	Each
MATERIALS TESTING				
ASTM	CTM	UBC		
		7-6	Fireproofing Density Test	\$ 45.00 Each
			High Strength Bolt, Nut, & Washer Conformance, set	\$ 55.00 Each

MATERIALS TESTING				
ASTM	CTM	UBC		
A416		Mechanically Spliced Reinforcing Tensile Test	\$ 75.00	Each
A615, A706		Pre-Stress Still Strand (7 wire)	\$ 145.00	Each
		Reinforcing Tensile or Bend Up to No.11	\$ 35.00	Each
		Welded Reinforcing Tensile Test: Up to No. 11 bars	\$ 45.00	Each
N/A		Welding Procedure Review	\$ 75.00	Each
HOT MIX ASPHALT TESTING				
ASTM	CTM			
D1561	CT304, 375	Laboratory Test Maximum Density (LTMD)	\$ 350.00	Each
D1650	CT304, CT366	Stabilometer Value	\$ 240.00	Each
D4546		Swell	\$ 110.00	Each
D2726	CT308	Specific Gravity & Density of Core	\$ 80.00	Each
D2041	CT309	Theoretical Maximum Specific Gravity & Density (Rice)	\$ 180.00	Each
	CT370	Moisture Content by Microwave Oven	\$ 60.00	Each
D5444	CT202	Sieve Analysis of Extracted Sample	\$ 150.00	Each
C136	CT202	Sieve Analysis of Bin Aggregate Sample, each	\$ 60.00	Each
C136	CT202	Sieve Analysis of Combined Aggregate Sample	\$ 200.00	Each
D6307	CT382	Asphalt Content by Ignition Oven (Bitumen Content)	\$ 170.00	Each
D6307	CT382	Asphalt Content by Ignition Oven (Correction Factor)	\$ 240.00	Each
D1188		Unit Weight – Molded Specimen or Cores	\$ 45.00	Each
D2726, D6926		Compacted Maximum Density – MARSHALL	\$ 200.00	Each
D2172	CT310	Extraction, % Asphalt, including Gradation	\$ 135.00	Each
D1560	CT366	Hveem Stability and Unit Weight CTM or ASTM	\$ 100.00	Each
MASONRY TESTING				
ASTM		UBC		
C140		Compression Test of CMU Block (gross)	\$ 50.00	Each
C140		Absorption & Moisture Content	\$ 50.00	Each
C426		Linear Shrinkage	\$ 150.00	Each
C140		Unit Weight	\$ 60.00	Each
C140		Dimensional Measurements	\$ 40.00	Each
C1006		Splitting Tensile Strength	\$ 80.00	Each
C140		Compression Test of Masonry Core	\$ 60.00	Each
	21-16	Compression Test of 2" x 4" Mortar Cylinder	\$ 25.00	Each
	21-17	Compression Test of Composite Prism	\$ 90.00	Each
	21-18	Compression Test of 3" x 3" x 6" Grout	\$ 50.00	Each

WORKING HOURS

- GAI regular workweek is Monday through Friday.
- Monday through Friday overtime hours (1.5 times regular rate) apply after eight (8) hours per day. Premium time hours (2 times regular rate) apply after twelve (12) hours per day. Saturday overtime hours are 1.5 times the contracted hourly rate. Sundays and Holidays hours are 2.0 times the contracted hourly rate. Holidays observed by GAI are New Year's, Memorial, Independence, Labor, Veterans, Thanksgiving and Christmas.
- Regular and overtime hour charges shall be in one-hour increments.

MINIMUM CHARGES FOR CONSTRUCTION PHASE INSPECTIONS

- All soils monitoring and technicians are based on a minimum of two (2) hours. Over two hours shall be a minimum of four (4) hours. All materials inspectors are based on a minimum of four (4) hours. Over four (4) hours will be a minimum of eight (8) hours. If an inspector or technician is scheduled to perform a service and no work is performed, a two (2) hour minimum charge for soil technicians and a four (4) hour minimum charge for material inspectors will apply and referred to as a show-up charge.

TRAVEL & MILEAGE (Excluded for this Contract)

- No travel time and mileage costs for engineering staff and materials/special inspection personnel. For soils technicians performing construction inspection and testing, travel time will be charged at a rate of \$50.00/hr. from GAI's closest office.
- The travel time and mileage fee may be subject to change per the negotiation with the client and written approval.

SCHEDULING & CANCELLATIONS

- A 24-hour notice is required when scheduling an inspection or technician. For same day scheduling and for after 3:00 pm the preceding day, the inspector/technician will be deployed to the site if a technician is available,

PREVAILING WAGE

- The prices quoted within and for during construction monitoring and inspection services for Prevailing Wage are provided in Page 1. The Prevailing Wage our hourly rates will increase the proportional percentage increase every July 1 in accordance with the wage listed by the Director of Industrial Relations which is tied to Operating Engineers Local 12 documented annual increases plus corresponding changes in our general administration and overhead expenses. These adjustments shall become the agreed upon basis for charges by GAI to Client.

LABORATORY TESTING

- A soils sample pick-up charge of 2-hour minimum with an hourly rate of \$50 will be billed in addition to the prices quoted for testing for soils.
- Concrete Cylinder and mortar sample pick-up within a 40 miles distance from GAI's office will be billed \$5 per cylinder/sample. Over 40 miles and less than 100 miles, will be \$10 per cylinder/sample.
- For rebars, masonry units and prisms and other samples, a sample pick-up charge of 2-hour minimum with an hourly rate of \$50 will be billed in addition to the prices quoted for testing for soils
- Material samples will be discarded after testing, unless notification by Client has been made to GAI's laboratory prior to testing. If Client requires samples be retrieved after testing or stored at GAI's laboratory for an extended duration of time, arrangements can be made at no additional cost to the client.