

April 5, 2017
Proposal No. 04-01267

Mr. Mons Mendoza
Senior Project Manager, Facilities
William S. Hart Union High School District
21380 Centre Pointe Parkway
Santa Clarita, California 91350

Subject: Proposal for In-Plant, Materials Testing and Specialty Inspection Services
Sierra Vista Junior High School
Phase II – GrowthPoint Modular Buildings Project
19425 Stillmore Street
Canyon Country, California
Division of the State Architect (DSA) Application No. 04-115197

References: WSHUHSD, 2017, Electronic Mail, from Mr. Mons Mendoza to Mr. Rajindra Handapangoda, Request for Proposal – In-Plant Services Sierra Vista Junior High School, dated March 13.

WSHUHSD, 2017, Electronic Mail, from Mr. Mons Mendoza to Mr. Rajindra Handapangoda, In-Plant Inspection Services, dated March 17.

WSHUHSD, 2017, Electronic Mail, from Mr. Mons Mendoza to Ms. Wendy Bravo, Ms. Shannon Hall, cc: Mr. Rajindra Handapangoda, Re: In-Plant Inspection Services, dated March 21.

Dear Mr. Mendoza:

Ninyo & Moore is pleased to submit this proposal for In-Plant, materials testing and specialty inspection services during the fabrication of the GrowthPoint modular buildings for the Sierra Vista Junior High School (JHS) Phase II construction project located at 19425 Stillmore Street in Canyon Country, California. We have prepared this proposal based on our discussions with you, Ms. Nadia Estevez (William S. Hart Union High School District [WSHUHSD]), Ms. Wendy Bravo (GrowthPoint), Ms. Shannon Hall (GrowthPoint), and our review of referenced email correspondences with attachments. Additionally, we visited the GrowthPoint fabrication facility located at 2960 Marsh Street in Los Angeles on March 20, 2017. We understand that cargo containers, also known as shipping containers, will be modified/fabricated to create modules that will be later joined and installed as modular buildings at Sierra Vista JHS. New modular buildings will serve as classrooms, storage spaces, restrooms, and office space. A brief summary of our understanding of the project consists of the following:

- Seventy-seven (77) modules will be fabricated.
- Twenty-one (21) modular buildings will be installed at Sierra Vista JHS.
- Fabrication will be performed at the new GrowthPoint facility in Carson, California.
- Fabrication will occur sometime between April 20, 2017 and June 2018.
- Installation of modular buildings at Sierra Vista JHS is scheduled for summer of 2018.

At the time of preparation of this proposal, a list of In-Plant DSA inspectors, project drawings and specifications, and duration of fabrication for the Sierra Vista JHS project were not available to us. We have prepared our proposal based on our review of the requirements as indicated on DSA IR 16-10 (Cargo Container Conversion to Modular School Buildings) and DSA IR A-31 (In-Plant Project Inspection of Manufacturer's Stockpile of Relocatable Buildings). A brief summary of our services during fabrication will consist of the following:

- In-Plant project inspection services at GrowthPoint's facility in Carson, California performed by a DSA Class 1 inspector.
- Structural steel welding and fabrication inspection services at GrowthPoint's facility in Carson, California performed by an AWS-CWI inspector.
- Nondestructive Testing (NDT) utilizing magnetic particle testing (MT) as specified on DSA IR 16-10 performed by a qualified Level II NDT technician.

SCOPE OF SERVICES

Our services will be performed in general accordance with the California Code of Regulations Title 24. Based on our understanding of the proposed construction, our review of the project Statement of Structural Tests and Inspections (DSA-103), our discussions with you and GrowthPoint representatives, and our experience with similar projects, we propose to provide the following scope of services:

- Project coordination, technical support, and management, including review of the project plans and specifications, distribution of test reports, and work scheduling.
- Regular distribution of tests and DSA interim and final verified reports in accordance with new DSA guidelines, 2013 California Administrative Code and DSA Construction Oversight Process (PR 13-01) requirements. Test data sheets and reports will be uploaded to the DSA box.

- Attendance at pre-construction meetings and as-needed field meetings.
- In-Plant project inspection services in accordance with project plans and specifications, DSA IR A-31 and DSA IR 16-10.
- Welding inspection services at the fabrication plant in accordance with the project specifications, DSA IR A-31 and DSA IR 16-10.
- NDT examination of welds in accordance with the project specifications and DSA IR A-31 and DS AIR 16-10.
- Review and complete Section 6 of the DSA 5-PI for the In-Plant project inspector.
- Preparation of progress reports and field memoranda to document the items inspected.
- Preparation and submittal of DSA 152-IPI to DSA box upon completion of construction of each modular building.
- Preparation and submittal of the Laboratory Interim and Final Verified Reports (DSA-291).

ASSUMPTIONS

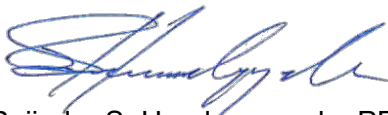
Based on our experience with similar projects, the following assumptions have been made in the preparation of our scope of services:

- Our services will be scheduled and coordinated by the project inspector or construction manager on an as-needed basis.
- Since the duration of fabrication was not available to us during the preparation of this proposal, we have assumed that approximately four (4) modules will be completed during one (1) week of fabrication. Therefore, we have assumed twenty (20) weeks for the fabrication of 77 modules.
- Our services are subject to prevailing wage requirements.
- Site inspections during installation will be provided at a later date under a separate proposal.
- Our estimated fee does not include stand-by time or costs associated with retesting or reinspecting materials that were found not to be in compliance with the project plans or specifications. Our services will depend on the construction schedule and the contractor's operations. Hours spent that exceed those in the attached table will be billed on a time-and-materials basis.

ESTIMATED FEE

We propose to provide materials testing and specialty inspection services on a time-and-materials basis in accordance with the attached Schedule of Fees and Schedule of Fees for Laboratory Testing. Our estimated fee for the scope of services described herein is presented in the attached Table 1. Ninyo & Moore appreciates the opportunity to provide services on this project and we look forward to working with you.

Respectfully submitted,
NINYO & MOORE



Rajindra S. Handapangoda, PE, GE
Senior Engineer

RAH/AR/sc



Alfred "Tino" Rodriguez
Principal, Construction Services

Attachments: Table 1 – Breakdown of Estimated Fee
Schedule of Fees
Schedule of Fees for Laboratory Testing

Distribution: (1) Addressee (via e-mail)

TABLE 1 - BREAKDOWN OF ESTIMATED FEE

PROJECT COORDINATION AND MANAGEMENT				
Senior Project Engineer/Geologist	120 hours @	\$ 163.00 /hour	\$	19,560.00
Subtotal				\$ 19,560.00
FIELD SERVICES				
Field Technician/Inspector				
In-Plant DSA Class 1 Inspector	400 hours @	\$ 98.00 /hour	\$	39,200.00
Welding Inspector (Shop)	400 hours @	\$ 98.00 /hour	\$	39,200.00
Non-Destructive Examination (Welds)	400 hours @	\$ 98.00 /hour	\$	39,200.00
Vehicle and Equipment Usage	1200 hours @	\$ 10.00 /hour	\$	12,000.00
Subtotal				\$ 129,600.00
REPORT PREPARATION FOR THE DSA 5-PI, DSA 152-IPI, and DSA-291				
Principal Engineer	20 hours @	\$ 178.00 /hour	\$	3,560.00
Senior Project Engineer/Geologist	40 hours @	\$ 163.00 /hour	\$	6,520.00
Subtotal				\$ 10,080.00
TOTAL ESTIMATED FEE				\$ 159,240.00

SCHEDULE OF FEES

HOURLY CHARGES FOR PERSONNEL

Principal Engineer/Geologist/Environmental Scientist	\$ 178
Senior Engineer/Geologist/Environmental Scientist	\$ 168
Senior Project Engineer/Geologist/Environmental Scientist	\$ 163
Project Engineer/Geologist/Environmental Scientist	\$ 156
Senior Staff Engineer/Geologist/Environmental Scientist	\$ 142
Staff Engineer/Geologist/Environmental Scientist	\$ 126
GIS Analyst	\$ 116
Field Operations Manager	\$ 112
Supervisory Technician	\$ 98
Nondestructive Examination Technician, UT, MT, LP	\$ 98
ACI Concrete Technician	\$ 98
Concrete/Asphalt Batch Plant Inspector	\$ 98
Special Inspector (Concrete, Masonry, Steel, Welding, and Fireproofing)	\$ 98
Senior Field/Laboratory Technician	\$ 92
Field/Laboratory Technician	\$ 92
Technical Illustrator/CAD Operator	\$ 92
Information Specialist	\$ 78
Geotechnical/Environmental/Laboratory Assistant	\$ 76
Data Processing, Technical Editing, or Reproduction	\$ 68

OTHER CHARGES

Concrete Coring Equipment (includes one technician)	\$ 160 /hr
PID/FID Usage	\$ 140 /day
Anchor load test equipment (includes technician)	\$ 97 /hr
Hand Auger Equipment	\$ 65 /day
Inclinometer Usage	\$ 40 /hr
Vapor Emission Kits	\$ 40 /kit
Level D Personal Protective Equipment (per person per day)	\$ 30 /p/d
Rebar Locator (Pachometer)	\$ 30 /hr
Nuclear Density Gauge Usage	\$ 15 /hr
Field Vehicle Usage	\$ 10 /hr
Direct Project Expenses	Cost plus 15 %
Laboratory testing, geophysical equipment, and other special equipment provided upon request.	

NOTES (Field Services)

For field and laboratory technicians and special inspectors, regular hourly rates are charged during normal weekday construction hours. Overtime rates at 1.5 times the regular rates will be charged for work performed outside normal construction hours and all day on Saturdays. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day or on Sundays and holidays. Lead time for any requested service is 24 hours. Field Technician rates are based on a 4-hour minimum. Special inspection rates are based on a 4-hour minimum for the first 4 hours and an 8-hour minimum for hours exceeding 4 hours. Field personnel are charged portal to portal.

INVOICES

Invoices will be submitted monthly and are due upon receipt. A service charge of 1.0 percent per month may be charged on accounts not paid within 30 days.

TERMS AND CONDITIONS

The terms and conditions of providing our consulting services include our limitation of liability and indemnities as presented in Ninyo & Moore's Work Authorization and Agreement.

SCHEDULE OF FEES FOR LABORATORY TESTING

Laboratory Test, Test Designation, and Price Per Test

Soils

Atterberg Limits, D 4318, CT 204	\$ 160
California Bearing Ratio (CBR), D 1883	\$ 485
Chloride and Sulfate Content, CT 417 & CT 422	\$ 175
Consolidation, D 2435, CT 219	\$ 300
Consolidation – Time Rate, D 2435, CT 219	\$ 75
Direct Shear – Remolded, D 3080	\$ 325
Direct Shear – Undisturbed, D 3080	\$ 275
Durability Index, CT 229	\$ 165
Expansion Index, D 4829, IBC 18-3	\$ 180
Expansion Potential (Method A), D 4546	\$ 160
Geofabric Tensile and Elongation Test, D 4632	\$ 180
Hydraulic Conductivity, D 5084	\$ 330
Hydrometer Analysis, D 422, CT 203	\$ 220
Moisture, Ash, & Organic Matter of Peat/Organic Soils	\$ 120
Moisture Only, D 2216, CT 226	\$ 35
Moisture and Density, D 2937	\$ 45
Permeability, CH, D 2434, CT 220	\$ 255
pH and Resistivity, CT 643	\$ 175
Proctor Density D 1557, D 698, CT 216, &	\$ 200
AASHTO T-180 (Rock corrections add \$100)	
R-value, D 2844, CT 301	\$ 295
Sand Equivalent, D 2419, CT 217	\$ 110
Sieve Analysis, D 422, CT 202	\$ 130
Sieve Analysis, 200 Wash, D 1140, CT 202	\$ 100
Specific Gravity, D 854	\$ 100
Thermal Resistivity (ASTM 5334, IEEE 442)	\$ 880
Triaxial Shear, C.D, D 4767, T 297	\$ 430
Triaxial Shear, C.U., w/pore pressure, D 4767, T 2297 per pt. \$	\$ 365
Triaxial Shear, C.U., w/o pore pressure, D 4767, T 2297 per pt. \$	\$ 210
Triaxial Shear, U.U., D 2850	\$ 155
Unconfined Compression, D 2166, T 208	\$ 120
Wax Density, D 1188	\$ 100

Masonry

Brick Absorption, 24-hour submersion, C 67	\$ 50
Brick Absorption, 5-hour boiling, C 67	\$ 60
Brick Absorption, 7-day, C 67	\$ 65
Brick Compression Test, C 67	\$ 50
Brick Efflorescence, C 67	\$ 50
Brick Modulus of Rupture, C 67	\$ 45
Brick Moisture as received, C 67	\$ 40
Brick Saturation Coefficient, C 67	\$ 55
Concrete Block Compression Test, 8x8x16, C 140	\$ 65
Concrete Block Conformance Package, C 90	\$ 485
Concrete Block Linear Shrinkage, C 426	\$ 135
Concrete Block Unit Weight and Absorption, C 140	\$ 60
Cores, Compression or Shear Bond, CA Code	\$ 60
Masonry Grout, 3x3x6 prism compression, C 39	\$ 35
Masonry Mortar, 2x4 cylinder compression, C 109	\$ 35
Masonry Prism, half size, compression, C 1019	\$ 120
Masonry Prism, Full size, compression, C 1019	\$ 185

Reinforcing and Structural Steel

Chemical Analysis, A 36, A 615	\$ 135
Fireproofing Density Test, UBC 7-6	\$ 60
Hardness Test, Rockwell, A 370	\$ 70
High Strength Bolt, Nut & Washer Conformance, per assembly, A 325	\$ 130
Mechanically Spliced Reinforcing Tensile Test, ACI	\$ 150
Pre-Stress Strand (7 wire), A 416	\$ 170
Reinforcing Tensile or Bend up to No. 11, A 615 & A 706	\$ 55
Structural Steel Tensile Test: Up to 200,000 lbs. (machining extra), A 370	\$ 80
Welded Reinforcing Tensile Test: Up to No. 11 bars, ACI	\$ 60

Concrete

Compression Tests, 6x12 Cylinder, C 39	\$ 25
Concrete Mix Design Review, Job Spec	\$ 155
Concrete Mix Design, per Trial Batch, 6 cylinder, ACI	\$ 825
Concrete Cores, Compression (excludes sampling), C 42	\$ 60
Drying Shrinkage, C 157	\$ 350
Flexural Test, C 78	\$ 65
Flexural Test, C 293	\$ 60
Flexural Test, CT 523	\$ 80
Gunite/Shotcrete, Panels, 3 cut cores per panel and test, ACI	\$ 275
Jobsite Testing Laboratory	Quote
Lightweight Concrete Fill, Compression, C 495	\$ 45
Petrographic Analysis, C 856	\$ 1,900
Restrained Expansion of Shrinkage Compensation	\$ 270
Splitting Tensile Strength, C 496	\$ 90
3x6 Grout, (CLSM), C 39	\$ 45
2x2x2 Non-Shrink Grout, C 109	\$ 45

Asphalt Concrete

Air Voids, T 269	\$ 50
Asphalt Mix Design, Caltrans (excl. Aggregate Quality)	\$ 2,800
Asphalt Mix Design Review, Job Spec	\$ 165
Dust Proportioning, CT LP-4	\$ 50
Extraction, % Asphalt, including Gradation, D 2172, CT 382	\$ 240
Film Stripping, CT 302	\$ 110
Hveem Stability and Unit Weight D 1560, T 246, CT 366	\$ 215
Marshall Stability, Flow and Unit Weight, T 245	\$ 240
Maximum Theoretical Unit Weight, D 2041, CT 309	\$ 150
Moisture Content, CT 370	\$ 85
Moisture Susceptibility and Tensile Stress Ratio, T 238, CT 371	\$ 1,000
Slurry Wet Track Abrasion, D 3910	\$ 150
SuperPave, Asphalt Mix Verification (incl. Aggregate Quality)	\$ 5,200
SuperPave, Gyrotory Unit Wt., T 312	\$ 75
SuperPave, Hamburg Wheel, 20,000 passes, T 324	\$ 1,000
Unit Weight sample or core, D 2726, CT 308	\$ 100
Voids in Mineral Aggregate, (VMA) CT LP-2	\$ 50
Voids filled with Asphalt, (VFA) CT LP-3	\$ 50

Aggregates

Clay Lumps and Friable Particles, C 142	\$ 160
Cleaness Value, CT 227	\$ 160
Crushed Particles, CT 205	\$ 165
Durability, Coarse or Fine, CT 229	\$ 195
Fine Aggregate Angularity, ASTM C 1252, T 304, CT 234	\$ 180
Flat and Elongated Particle, D 4791	\$ 220
Lightweight Particles, C 123	\$ 180
Los Angeles Abrasion, C 131 or C 535	\$ 200
Material Finer than No. 200 Sieve by Washing, C 117	\$ 75
Organic Impurities, C 40	\$ 80
Potential Alkali Reactivity, Mortar Bar Method, Coarse, C 1260	\$ 950
Potential Alkali Reactivity, Mortar Bar Method, Fine, C 1260	\$ 1,250
Potential Reactivity of Aggregate (Chemical Method), C 289	\$ 450
Sand Equivalent, T 176, CT 217	\$ 110
Sieve Analysis, Coarse Aggregate, T 27, C 136	\$ 115
Sieve Analysis, Fine Aggregate (including wash), T 27, C 136	\$ 130
Sodium Sulfate Soundness, C 88	\$ 450
Specific Gravity and Absorption, Coarse, C 127, CT 206	\$ 100
Specific Gravity and Absorption, Fine, C 128, CT 207	\$ 160

Roofing

Roofing Tile Absorption, (set of 5), C 67	\$ 210
Roofing Tile Strength Test, (set of 5), C 67	\$ 210

Special preparation of standard test specimens will be charged at the technician's hourly rate.

Ninyo & Moore is accredited to perform the AASHTO equivalent of many ASTM test procedures.