SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT
BOARD OF TRUSTEES
A G E N D A A N D O R D E R O F B U S I N E S S – SPECIAL BOARD MEETING AND COMMUNITY FORUM
Thursday, October 24, 2019

Baden High School – Gymnasium
825 Southwood Drive, South San Francisco, California

OPEN SESSION — 6:00 p.m.

A. CALL TO ORDER

CLOSED SESSION – 6:00 p.m.

1. To consider the appointment of one (1) public employee to the position of Director of Fiscal Services, in accordance with Government Code Section 54956.
2. Superintendent evaluation.

RECONVENE INTO OPEN SESSION – 6:45 p.m.

B. ROLL CALL

C. PLEDGE OF ALLEGIANCE

D. REPORTING OUT FROM CLOSED SESSION

E. CONSENT AGENDA: The following items are submitted for Board approval. One motion will authorize action for those items so designated.

1. BUSINESS SERVICES

PAGE

a. Staff recommends the approval of Change Order #1 to the CWS Construction Group, Inc. agreement, in the amount of $13,299, for additional work in the Martin ES modernization project. 1 - 5

b. Staff recommends the approval of proposals from Ninyo & Moore, Inc., in the amount of $89.272, for SSFHS and ECHS fields projects. 6 - 20

INFORMATION/DISCUSSION

F. COMMUNITY FORUM m

a. Introduction

- Superintendent Shawnterra Moore

b. School safety: A review of the Big 5 Protocols and site emergency plans

c. Homework policy

G. COMMUNICATIONS – Open microphone

Public comments are limited to three minutes per individual. Name/address cards are placed in the back of the room to be completed and given to the secretary. The Board President will call upon individuals in random order who have requested to speak. Each person may only speak once, and is required to address the Board from the podium. The meeting is recorded and streamed live. Individuals may address the Board concerning school business not on the agenda, but public comment cannot be acted upon or discussed by the Board unless placed on the agenda at a subsequent meeting, in accordance with the law, the Brown Act. The Board may request staff to respond orally at the meeting or in writing at a future time.

ADJOURNMENT

SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT

Memorandum

TO: Board of Trustees

FROM: Shawnterra Moore, Ed.D., Superintendent

THRU: Ted O, Assistant Superintendent – Business Services

William Savidge, Facilities Management Consultant

DATE: October 24, 2019

RE: Approval of Change Order #1 to the contract of CWS Construction, Inc. on the Martin Elementary School Modernization project

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BACKGROUND:

The South San Francisco Unified School District awarded a contract for the Martin Elementary School Modernization to CWS Construction on April 25, 2019. The work has been on-going since May. The initial phases of the work include extensive site work, underground utilities, and interior and exterior handicapped access upgrades to the original main building. The renovations to the classroom wings are also on-going and are being completed in phases. Classroom wing work includes new windows, flooring, HVAC replacement, restroom renovations, exterior walkways, landscaping, and painting.

During the course of the work, which has included extensive excavations and demolition of existing site and building elements, there have been a number of unforeseen conditions encountered which have resulted in changes to the work. Change Order #1 includes negotiated costs for these issues.

This Change Order also includes several scope reductions negotiated at the beginning of the work. Finally Change Order #1 also includes two owner-requested additional work items.

FISCAL IMPLICATIONS:

By this action: $13,299. This will paid from Fund 40.

RECOMMENDATION:

It is recommended that the South San Francisco Unified School District Board of Trustees approve Change Order #1 to the Contract of CWS Construction for the Martin Elementary School Modernization project.

DOCUMENT 00 63 63

CHANGE ORDER FORM

South San Francisco Unified School District
398 B Street
South San Francisco, CA 94080

CHANGE ORDER NO.:
001

CHANGE ORDER

Project: Martin Elementary School Modernization Project 01-19

Date: _10/3/2019_____
DSA File No.: _41-28___
DSA Appl. No.:_01-116977

The following parties agree to the terms of this Change Order:

Owner:
SSFUSD_____
398 B Street_____
South San Francisco, CA 94080__

Contractor:
CWS Construction Group Inc_____
94 San Benito Way_____
Novato, CA 94945_____

Architect:
Hibser Yamauchi Architects, Inc._____
300 27th Avenue_____
Oakland, CA 94612_____

Project Inspector:
David Callahan_____
_____
_____

Reference	Description	Cost	Days Ext.
PCO #001.1 Requested by: Owner Performed by: CWS Reason: Owner request	Deduct - changed window finish to anodized in lieu of Kynar.	-$ 20,000	0
PCO # 002 Requested by: Owner Performed by: CWS Reason: Owner request	Deduct - delete flooring scope in classrooms of Building A. Credit include demolition and flooring.	-$ 63,592	0
PCO # 003 Requested by: Owner Performed by: CWS Reason: Owner request	Deduct - delete flooring scope to portable classrooms J, K, L, & M. Credit include demolition and flooring.	-$ 37,363	0
PCO # 004 Requested by: Owner Performed by: CWS Reason: Unforeseen	Remove and replace or repair existing conduits in ground that were corroded or damaged. This was uncovered during site excavation.	$ 3,180	0
PCO # 007.3 Requested by: AOR Performed by: CWS Reason: Unforeseen	Building A interior ramp redesign to account for the existing conditions.	$ 23,066	0
PCO # 008 Requested by: Geotech Performed by: CWS Reason: Unforeseen	Site investigation to uncover existing utilities.	$ 2,548	0

PCO # 009 Requested by: SEOR Performed by: CWS Reason: Unforeseen	Building A exterior ramp redesign to account for the existing foundation of building A. Over excavate as required due to unstable soil.	$ 21,068	0
PCO # 010.1 Requested by: Geotech Performed by: CWS Reason: Unforeseen	Building A exterior ramp - place geo fabric and import AB.	$ 19,444	0
PCO # 011.1 Requested by: SEOR Performed by: CWS Reason: Unforeseen	Additional demolition required for deepened footings.	$ 3,803	0
PCO # 012 Requested by: AOR Performed by: CWS Reason: Error	Additional surveyor required for the redesign of the exterior ramp to building A.	$ 2,691	0
PCO # 013 Requested by: SEOR Performed by: CWS Reason: Regulatory Requirement	Added hold down bolt to inside of building A at top of ramp. Detail issued after bid.	$ 2,020	0
PCO # 014 Requested by: AOR Performed by: CWS Reason: Omission	Added plywood finish @ interior ramp and classrooms	$ 11,064	0
PCO # 015 Requested by: AOR Performed by: CWS Reason: Unforeseen	Relocate main water valve in direct conflict of ADA exterior ramp	$ 5,923	0
PCO # 016 Requested by: AOR Performed by: CWS Reason: Unforeseen	Additional handrail at interior ramp	$ 2,425	0
PCO # 017 Requested by: Owner Performed by: CWS Reason: Owner request	Painting of interior doors	$ 8,260	0
PCO # 018.1 Requested by: Owner Performed by: CWS Reason: Owner request	Remove and replace LV data cabling to Bldg. B. New raceway, cabling, and ports.	$ 28,762	0
Contract time will be adjusted as follows: Previous Completion Date: Unchanged 0 Calendar Days Extension (zero unless otherwise indicated) Current Completion Date: unchanged	**Original Contract Amount:**	**$ 5,497,000**	
	Amount of Previously Approved Change Order(s):	$ 0	
	Amount of this Change Order:	**$ 13,299**	
	Revised Contract Amount:	**$ 5,510,299**	

The undersigned Contractor approves the foregoing as to the changes, if any, to the Contract Price specified for each item, and as to the extension of time allowed, if any, for completion of the entire work as stated therein, and agrees to furnish all labor, materials and services and perform all work necessary to complete any additional work specified for the consideration stated therein. Submission of sums which have no basis in fact or which Contractor knows are false are at the sole risk of Contractor and may be a violation of the False Claims Act set forth under Government Code section 12650, et seq.

This change order is subject to approval by the governing board of this District and must be signed by the District. Until such time as this change order is approved by the District's governing board and executed by a duly authorized District representative, this change order is not effective and not binding.

It is expressly understood that the compensation and time, if any, granted herein represent a full accord and satisfaction for any and all time and cost impacts of the items herein, and Contractor waives any and all further compensation or time extension based on the items herein. The value of the extra work or changes expressly includes any and all of the Contractor's costs and expenses, and its subcontractors, both direct and indirect, resulting from additional time required on the project or resulting from delay to the project. Any costs, expenses, damages or time extensions not included are deemed waived.

Signatures:

District:		Contractor:	
[Name]	Date	[Name]	Date
Architect:		Project Inspector:	
[Name]	Date	[Name]	Date

END OF DOCUMENT

SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT

Memorandum

TO: Board of Trustees

FROM: Shawnterra Moore, Ed.D., Superintendent

THRU: Ted O, Assistant Superintendent – Business Services

William Savidge, Facilities Management Consultant

DATE: October 24, 2019

RE: Approval of proposals for Geotechnical Observation, Materials Testing and Special Inspections for the South San Francisco High School Baseball and Softball Fields Projects and the El Camino High School Softball Field Project

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BACKGROUND:

The South San Francisco High School baseball and softball fields are just starting construction. The El Camino High School softball field will start within the month. All projects have been approved by the Division of State Architect (DSA) which requires geotechnical observation, materials testing, and special inspection in accordance with the requirements of the California Building Code.

Ninyo & Moore, Inc. was previously selected by request for proposal process to provide these services on District projects. Their proposals for services on these projects are attached. The services are provided on a time and materials basis, and the final costs may vary.

The proposed costs for services are as follows:

- SSFHS baseball field $34,438
- SSFHS softball field $26,724
- ECHS softball field $28,110.

FISCAL IMPLICATIONS:

By this action: $89,272. This will paid from Fund 40.

RECOMMENDATION:

It is recommended that the South San Francisco Unified School District Board of Trustees approve the proposals from Ninyo & Moore, Inc. for geotechnical observation, materials testing and special inspections on the South San Francisco High School baseball and softball fields projects and the El Camino High School softball field project.

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

September 27, 2019
Proposal No. 08SJO02-01032

Mr. William Gong
South San Francisco Unified School District
398 B Street
South San Francisco, California 94080

Subject: Proposal for Geotechnical Observation, Materials Testing and Special Inspection Services for South San Francisco High Fields Project
400 B Street, South San Francisco, California 94080

Baseball Field
DSA Application No.: 01-118182; File No.: 41-H6
Softball Field
DSA Application No.: 01-118183; File No.: 41-H6

Dear Mr. Gong:

In accordance with your request, we are pleased to submit this proposal for geotechnical observation, materials testing, and special inspection services for the South San Francisco High School Baseball and Softball Fields project in South San Francisco, California. This proposal includes cost estimates based on our review of the project plans, specifications, DSA 103 sheet and our previous experience with similar projects of this nature.

The purpose of our services will be to provide you with field and laboratory data and information in order to assess compliance with the project plans and specifications.

PROJECT UNDERSTANDING

We understand that the baseball field project includes construction of new natural turf field including infield fines, pitcher's mound, base paths and new drainage system along with new chain link backstop, batting cages, bullpens, accessible path of travel and scoreboard. Softball field project includes site utilities, cinder infield and natural turf outfield, installation of new backstop, bullpens, site fencing, drinking fountain and additional site furnishing.

PROPOSED SCOPE OF SERVICES

Based on our understanding of the proposed construction, and our experience with similar projects, we propose to provide the following scope of services:

- Provide project management to include client liaison, work scheduling, quality review, and semi-monthly distribution of test data and daily field inspection reports.
- Geotechnical Observation and Testing Services include:
    - Provide technical consultation during construction including submittal review and respond to requests for information.
    - Soil sample pick up from the project site.
    - Laboratory tests to evaluate the proctor density of subgrade and aggregate base for compaction testing.
    - Observe site preparation, excavation, and removal of unsuitable materials.
    - Drilled pier and foundation observation.
    - Observe prepared subgrade for conformance with geotechnical recommendations and design assumptions.
    - Observe placement and compaction of subgrade and aggregate base.
    - Density tests to evaluate compaction of subgrade and aggregate base.
- Review concrete mix designs submitted by the contractor for compliance with the project documents.
- Sampling and tagging of reinforcing steel at the shop.
- Tensile and bend tests of reinforcing steel in the laboratory.
- Periodic concrete batch plant inspection.
- Slump, air content and temperature tests of concrete and cast compressive strength test specimens (1 set / 50 cubic yards) on site.
- Compression testing of concrete cylinders in the laboratory.
- Epoxy dowels and/or post-installed anchors installation inspection.
- Pull and torque testing of epoxy dowels and/or post-installed anchors.
- Structural steel welding inspection in the shop and field.
- Non-destructive testing (UT/MT) in the shop and field.
- Sample pickups for concrete cylinders.

- Compile, review and distribute progress report including field and laboratory test data.
- Prepare interim and final verified report at the conclusion of the project.

ASSUMPTIONS

- Our services are subject to California prevailing wage law.
- Project labor agreement is not required for this project.

FEE ESTIMATE

We propose to perform the scope of services described above, subject to the listed assumptions, on a time-and-materials basis in accordance with the attached Schedule of Fees.

Our proposed fee estimate for the scope of services described for this baseball field project is **$34,438 (Thirty Four Thousand Four Hundred and Thirty Eight Dollars)**. Our proposed fee estimate for the scope of services described for the softball field project is **$26,724 (Twenty Six Thousand Seven Hundred and Twenty Four Dollars)**. Detailed estimates of fees are attached under Table 1 and 2. Should the construction schedule require a lesser or greater amount of services than that estimated herein, the cost will vary accordingly.

We sincerely appreciate the opportunity to submit this proposal, and look forward to working with you on this project.

Respectfully submitted,
NINYO & MOORE

Ruchil Shah
Senior Project Manager

Mark Reeser
Director of Construction Services

RS/RMR/slt

Attachments: Table 1 - Breakdown of Estimated Fee for Baseball Field
Table 2 - Breakdown of Estimated Fee for Softball Field
Schedule of Fees

Table 1 - Breakdown of Estimated Fee for Baseball Field (01-118182)								
Task 1 - Geotechnical Observation								
Senior Staff Engineer	Drilled Pier and Foundation Observation	20 hours	@	$	120.00	/hour	$	2,400.00
Field Technician	Subgrade Soil and AB Compaction Testing	64 hours	@	$	85.00	/hour	$	5,440.00
Field Technician	Sample Pick Up (Soil & AB)	12 hours	@	$	85.00	/hour	$	1,020.00
Nuclear Gauge	Equipment Charge	64 hours	@	$	12.00	/hour	$	768.00
Vehicle Charge	Vehicle Usage	76 hours	@	$	10.00	/hour	$	760.00
Proctor Density	For Soil Compaction Testing	4 tests	@	$	260.00	/test	$	1,040.00
					Subtotal			**$ 11,428.00**
Task 2 - Special Inspection & Testing Services								
Field Technician	Sampling and Tagging of Reinforcing Steel	20 hours	@	$	85.00	/hour	$	1,700.00
Special Inspector	Concrete Batch Plant Inspection (Periodic)	10 hours	@	$	85.00	/hour	$	850.00
Field Technician	Concrete Sampling and Testing	32 hours	@	$	85.00	/hour	$	2,720.00
Special Inspector	Post-Installed Anchor Installation Inspection	20 hours	@	$	85.00	/hour	$	1,700.00
Field Technician	Pull & Torque Testing of Post-Installed Anchor / Epoxy Dowels	16 hours	@	$	89.00	/hour	$	1,424.00
Special Inspector	Structural Steel welding Inspection in the Shop and Field	52 hours	@	$	85.00	/hour	$	4,420.00
Field Technician	Non Destructive Testing (UT/MT)	16 hours	@	$	95.00	/hour	$	1,520.00
Field Technician	Sample Pick Up (Concrete Cylinders)	20 hours	@	$	85.00	/hour	$	1,700.00
Vehicle Charge	Vehicle Usage	186 hours	@	$	10.00	/hour	$	1,860.00
Reinforcing Steel	Tensile & Bend Tests	10 tests	@	$	105.00	/test	$	1,050.00
Concrete Cylinders	Compression Tests, 4"x 8" Cylinders (5 Cylinders/50 CYs)	35 tests	@	$	30.00	/test	$	1,050.00
					Subtotal			**$ 19,994.00**
Task 3 - Project Management								
Principal Engineer	Consultation, Verified Reports & Project Oversight	4 hours	@	$	155.00	/hour	$	620.00
Project Engineer	Submittal Review, Report Preparation & Project Coordination	12 hours	@	$	133.00	/hour	$	1,596.00
Project Assistant	Data Compilation, Dispatch & Word Processing	10 hours	@	$	80.00	/hour	$	800.00
					Subtotal		$	**3,016.00**
TOTAL ESTIMATED FEE								**$ 34,438.00**

Table 2 - Breakdown of Estimated Fee for Softball Field (01-118183)								
Task 1 - Geotechnical Observation								
Senior Staff Engineer	Drilled Pier and Foundation Observation	16 hours	@	$	120.00	/hour	$	1,920.00
Field Technician	Subgrade Soil and AB Compaction Testing	40 hours	@	$	85.00	/hour	$	3,400.00
Field Technician	Sample Pick Up (Soil & AB)	8 hours	@	$	85.00	/hour	$	680.00
Nuclear Gauge	Equipment Charge	40 hours	@	$	12.00	/hour	$	480.00
Vehicle Charge	Vehicle Usage	48 hours	@	$	10.00	/hour	$	480.00
Proctor Density	For Soil Compaction Testing	4 tests	@	$	260.00	/test	$	1,040.00
					Subtotal		**$**	**8,000.00**
Task 2 - Special Inspection & Testing Services								
Field Technician	Sampling and Tagging of Reinforcing Steel	16 hours	@	$	85.00	/hour	$	1,360.00
Special Inspector	Concrete Batch Plant Inspection (Periodic)	8 hours	@	$	85.00	/hour	$	680.00
Field Technician	Concrete Sampling and Testing	24 hours	@	$	85.00	/hour	$	2,040.00
Special Inspector	Post-Installed Anchor Installation Inspection	20 hours	@	$	85.00	/hour	$	1,700.00
Field Technician	Pull & Torque Testing of Post-Installed Anchor / Epoxy Dowels	16 hours	@	$	89.00	/hour	$	1,424.00
Special Inspector	Structural Steel welding Inspection in the Shop and Field	40 hours	@	$	85.00	/hour	$	3,400.00
Field Technician	Non Destructive Testing (UT/MT)	8 hours	@	$	95.00	/hour	$	760.00
Field Technician	Sample Pick Up (Concrete Cylinders)	16 hours	@	$	85.00	/hour	$	1,360.00
Vehicle Charge	Vehicle Usage	148 hours	@	$	10.00	/hour	$	1,480.00
Reinforcing Steel	Tensile & Bend Tests	8 tests	@	$	110.00	/test	$	880.00
Concrete Cylinders	Compression Tests, 4"x 8" Cylinders (5 Cylinders/50 CYs)	35 tests	@	$	30.00	/test	$	1,050.00
					Subtotal		**$**	**16,134.00**
Task 3 - Project Management								
Principal Engineer	Consultation, Verified Reports & Project Oversight	4 hours	@	$	155.00	/hour	$	620.00
Project Engineer	Submittal Review, Report Preparation & Project Coordination	10 hours	@	$	133.00	/hour	$	1,330.00
Project Assistant	Data Compilation, Dispatch & Word Processing	8 hours	@	$	80.00	/hour	$	640.00
					Subtotal		**$**	**2,590.00**
TOTAL ESTIMATED FEE								**$ 26,724.00**

Schedule of Fees

Hourly Charges for Personnel

Principal Engineer/Geologist/Environmental Scientist	$ 155
Senior Engineer/Geologist/Environmental Scientist	$ 150
Senior Project Engineer/Geologist/Environmental Scientist	$ 140
Project Engineer/Geologist/Environmental Scientist	$ 133
Senior Staff Engineer/Geologist/Environmental Scientist	$ 120
Staff Engineer/Geologist/Environmental Scientist	$ 110
GIS Analyst	$ 105
Field Operations Manager	$ 105
Supervisory Technician	$ 100
Nondestructive Examination Technician, UT, MT, LP	$ 95
ACI Concrete Technician	$ 85
Concrete/Asphalt Batch Plant Inspector	$ 85
Special Inspector (Concrete, Masonry, Steel, Welding, and Fireproofing)	$ 85
Senior Field/Laboratory Technician	$ 85
Field/Laboratory Technician	$ 85
Data Processing, Technical Editing, or Reproduction	$ 85
Technical Illustrator/CAD Operator	$ 80
Information Specialist	$ 80

Other Charges

Concrete Coring Equipment (includes one technician)	$ 175/hr
PID/FID Usage	$ 120/day
Anchor load test equipment (includes technician)	$ 89/hr
Hand Auger Equipment	$ 55/day
Inclinometer Usage	$ 32/hr
Vapor Emission Kits	$ 30/kit
Level D Personal Protective Equipment (per person per day)	$ 25/p/d
Rebar Locator (Pachometer)	$ 22/hr
Nuclear Density Gauge Usage	$ 12/hr
Field Vehicle Usage	$ 10/hr
Direct Project Expenses	Cost plus 15 %

Laboratory testing, geophysical equipment, and other special equipment provided upon request.

Notes

For field and laboratory technicians and special inspectors, overtime rates at 1.5 times the regular rates will be charged for work performed in excess of 8 hours in one day Monday through Friday and all day on Saturday. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day, all day Sunday and on holidays.

Field technician and special inspection hours are charged portal to portal at a 4-hour minimum, and 8-hour minimum for hours exceeding 4 hours.

Invoices are payable upon receipt. A service charge of 1.5 percent per month may be charged on accounts not paid within 30 days.

Our rates will be adjusted in conjunction with the increase in the Prevailing Wage Determination during the life of the project, as applicable.

The terms and conditions are included in Ninyo & Moore's Work Authorization and Agreement form.

Schedule of Fees for Laboratory Testing

Laboratory Test, Test Designation, and Price Per Test

SOILS

Atterberg Limits, D 4318, CT 204	$	180
California Bearing Ratio (CBR), D 1883	$	440
Chloride and Sulfate Content, CT 417 & CT 422	$	135
Consolidation, D 2435, CT 219	$	275
Consolidation – Time Rate, D 2435, CT 219	$	70
Direct Shear – Remolded, D 3080	$	290
Direct Shear – Undisturbed, D 3080	$	250
Durability Index, CT 229	$	150
Expansion Index, D 4829, UBC 18-2	$	240
Expansion Potential (Method A), D 4546	$	180
Expansive Pressure (Method C), D 4546	$	180
Geofabric Tensile and Elongation Test, D 4632	$	165
Hydraulic Conductivity, D 5084	$	300
Hydrometer Analysis, D 422, CT 203	$	190
Moisture, Ash, & Organic Matter of Peat/Organic Soils	$	110
Moisture Only, D 2216, CT 226	$	30
Moisture and Density, D 2937	$	50
Permeability, CH, D 2434, CT 220	$	290
pH and Resistivity, CT 643	$	160
Proctor Density D 1557, D 698, CT 216, & AASHTO T-180 (Rock corrections add $80)	$	260
R-value, D 2844, CT 301	$	425
Sand Equivalent, D 2419, CT 217	$	110
Sieve Analysis, D 422, CT 202	$	110
Sieve Analysis, 200 Wash, D 1140, CT 202	$	90
Specific Gravity, D 854	$	200
Triaxial Shear, C.D, D 4767, T 297	$	390
Triaxial Shear, C.U., w/pore pressure, D 4767, T 2297 per pt	$	330
Triaxial Shear, C.U., w/o pore pressure, D 4767, T 2297 per pt	$	190
Triaxial Shear, U.U., D 2850	$	140
Unconfined Compression, D 2166, T 208	$	100
Wax Density, D 1188	$	90

ROOFING

Built-up Roofing, cut-out samples, D 2829	$	165
Roofing Materials Analysis, D 2829	$	500
Roofing Tile Absorption, (set of 5), UBC 15-5	$	190
Roofing Tile Strength Test, (set of 5), UBC 15-5	$	190

MASONRY

Brick Absorption, 24-hour submersion, C 67	$	45
Brick Absorption, 5-hour boiling, C 67	$	55
Brick Absorption, 7-day, C 67	$	60
Brick Compression Test, C 67	$	45
Brick Efflorescence, C 67	$	45
Brick Modulus of Rupture, C 67	$	40
Brick Moisture as received, C 67	$	35
Brick Saturation Coefficient, C 67	$	50
Concrete Block Compression Test, 8x8x16, C 140	$	60
Concrete Block Conformance Package, C 90	$	1100
Concrete Block Linear Shrinkage, C 426	$	120
Concrete Block Unit Weight and Absorption, C 140	$	55
Cores, Compression or Shear Bond, CA Code	$	85
Masonry Grout, 3x3x6 prism compression, UBC 21-18	$	30
Masonry Mortar, 2x4 cylinder compression, UBC 21-16	$	30
Masonry Prism, half size, compression, UBC 21-17	$	180

CONCRETE

Cement Analysis Chemical and Physical, C 109	$	1,650
Compression Tests, 6x12 Cylinder, C 39	$	30
Concrete Mix Design Review, Job Spec	$	140
Concrete Mix Design, per Trial Batch, 6 cylinder, ACI	$	750
Concrete Cores, Compression (excludes sampling), C 42	$	55
Drying Shrinkage, C 157	$	250
Flexural Test, C 78	$	100
Flexural Test, C 293	$	55
Flexural Test, CT 523	$	100
Gunite/Shotcrete, Panels, 3 cut cores per panel and test, ACI	$	250
Jobsite Testing Laboratory		Quote
Lightweight Concrete Fill, Compression, C 495	$	55
Petrographic Analysis, C 856	$	1,100
Splitting Tensile Strength, C 496	$	80

REINFORCING AND STRUCTURAL STEEL

Fireproofing Density Test, UBC 7-6	$	70
Hardness Test, Rockwell, A-370	$	80
High Strength Bolt, Nut & Washer Conformance, set, A-32	$	205
Mechanically Spliced Reinforcing Tensile Test, ACI	$	95
Pre-Stress Strand (7 wire), A 416	$	140
Chemical Analysis, A-36, A-615	$	120
Reinforcing Tensile or Bend up to No. 11, A 615 & A 706		
No. 8 Rebar	$	55
No. 11 Rebar	$	75
No. 18 Rebar	$	150
Structural Steel Tensile Test: Up to 200,000 lbs. (machining extra), A 370	$	105
Welded Reinforcing Tensile Test: Up to No. 11 bars, ACI	$	80
Tensile Test for Fiberwrap (ASTM D-3039)	$	675

ASPHALT CONCRETE

Asphalt Mix Design, Caltrans	$	2,200
Asphalt Mix Design Review, Job Spec	$	150
Extraction, % Asphalt, including Gradation, D 2172, CT 310	$	215
Film Stripping, CT 302	$	100
Hveem Stability and Unit Weight CTM or ASTM, CT 366	$	195
Marshall Stability, Flow and Unit Weight, T-245	$	215
Maximum Theoretical Unit Weight, D 2041	$	120
Swell, CT 305	$	165
Unit Weight sample or core, D 2726, CT 308	$	90

AGGREGATES

Absorption, Coarse, C 127	$	35
Absorption, Fine, C 128	$	35
Clay Lumps and Friable Particles, C 142	$	100
Cleanness Value, CT 227	$	160
Crushed Particles, CT 205	$	140
Durability, Coarse, CT 229	$	165
Durability, Fine, CT 229	$	165
Los Angeles Abrasion, C 131 or C 535	$	180
Mortar making properties of fine aggregate, C 87	$	275
Organic Impurities, C 40	$	55
Potential Reactivity of Aggregate (Chemical Method), C 289	$	390
Sand Equivalent, CT 217	$	90
Sieve Analysis, Coarse Aggregate, C 136	$	125
Sieve Analysis, Fine Aggregate (including wash), C 136	$	125
Sodium Sulfate Soundness (per size fraction), C 88	$	160
Specific Gravity, Coarse, C 127	$	75
Specific Gravity, Fine, C 128	$	110

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.

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

September 27, 2019
Proposal No. 08SJO02-01031

Mr. William Gong
South San Francisco Unified School District
398 B Street
South San Francisco, California 94080

Subject: Proposal for Geotechnical Observation, Materials Testing and Special Inspection Services for El Camino High School Softball Field
1320 Mission Road, South San Francisco, California 94080
DSA Application No.: 01-118184; File No.: 41-H6

Dear Mr. Gong:

In accordance with your request, we are pleased to submit this proposal for geotechnical observation, materials testing and special inspection services for the El Camino High School Softball Field project in South San Francisco, California. This proposal includes cost estimates based on our review of the project plans, specifications, DSA 103 sheet and our previous experience with similar projects of this nature.

The purpose of our services will be to provide you with field and laboratory data and information in order to assess compliance with the project plans and specifications.

PROJECT UNDERSTANDING

We understand that this project includes construction of new synthetic turf field on top of asphalt paving along with installation of new backstop, bullpens, site fencing, site utilities, concrete ramp, scoreboard, flagpole, protective netting and additional site furnishing.

PROPOSED SCOPE OF SERVICES

Based on our understanding of the proposed construction, and our experience with similar projects, we propose to provide the following scope of services:

- Provide project management to include client liaison, work scheduling, quality review, and semi-monthly distribution of test data and daily field inspection reports.
- Geotechnical Observation and Testing Services include:

- Provide technical consultation during construction including submittal review and respond to requests for information.
- Soil sample pick up from the project site.
- Laboratory tests to evaluate the proctor density of subgrade and aggregate base for compaction testing.
- Hveem density test for asphalt concrete in the laboratory.
- Observe site preparation, excavation, and removal of unsuitable materials.
- Drilled pier and foundation observation.
- Observe prepared subgrade for conformance with geotechnical recommendations and design assumptions.
- Observe placement and compaction of subgrade, aggregate base and asphalt concrete.
- Density tests to evaluate compaction of subgrade, aggregate base and asphalt concrete.

- Review concrete mix designs submitted by the contractor for compliance with the project documents.
- Sampling and tagging of reinforcing steel at the shop.
- Tensile and bend tests of reinforcing steel in the laboratory.
- Periodic concrete batch plant inspection.
- Slump, air content and temperature tests of concrete and cast compressive strength test specimens (1 set / 50 cubic yards) on site.
- Compression testing of concrete cylinders in the laboratory.
- Epoxy dowels and/or post-installed anchors installation inspection.
- Pull and torque testing of epoxy dowels and/or post-installed anchors.
- Structural steel welding inspection in the shop and field.
- Non-destructive testing (UT/MT) in the shop and field.
- Sample pickups for concrete cylinders.
- Compile, review and distribute progress report including field and laboratory test data.
- Prepare interim and final verified report at the conclusion of the project.

ASSUMPTIONS

- Our services are subject to California prevailing wage law.
- Project labor agreement is not required for this project.

FEE ESTIMATE

We propose to perform the scope of services described above, subject to the listed assumptions, on a time-and-materials basis in accordance with the attached Schedule of Fees.

Our proposed time-and-materials fee estimate for the scope of services described for this project is **$28,110 (Twenty Eight Thousand One Hundred and Ten Dollars)**. Detailed estimate of fees is attached under Table 1. Should the construction schedule require a lesser or greater amount of services than that estimated herein, the cost will vary accordingly.

We sincerely appreciate the opportunity to submit this proposal, and look forward to working with you on this project.

Respectfully submitted,
NINYO & MOORE

Ruchil Shah
Senior Project Manager

Mark Reeser
Director of Construction Services

RS/RMR/slt

Attachments: Table 1 - Breakdown of Estimated Fee
Schedule of Fees

Table 1 - Breakdown of Estimated Fee El Camino High School Softball Field (01-118184)								
Task 1 - Geotechnical Observation								
Senior Staff Enginee	Drilled Pier and Foundation Observation	20 hours	@	$	120.00	/hour	$	2,400.00
Field Technician	Subgrade Soil, AB and AC Compaction Testing	48 hours	@	$	85.00	/hour	$	4,080.00
Field Technician	Sample Pick Up (Soil, AB & AC)	12 hours	@	$	85.00	/hour	$	1,020.00
Nuclear Gauge	Equipment Charge	48 hours	@	$	12.00	/hour	$	576.00
Vehicle Charge	Vehicle Usage	60 hours	@	$	10.00	/hour	$	600.00
Proctor Density	For Soil Compaction Testing	4 tests	@	$	260.00	/test	$	1,040.00
Hveem Density	For Asphalt Concrete	2 tests	@	$	195.00	/test	$	390.00
					Subtotal			**$ 10,106.00**
Task 2 - Special Inspection & Testing Services								
Field Technician	Sampling and Tagging of Reinforcing Steel	16 hours	@	$	85.00	/hour	$	1,360
Special Inspector	Concrete Batch Plant Inspection (Periodic)	8 hours	@	$	85.00	/hour	$	680.00
Field Technician	Concrete Sampling and Testing	24 hours	@	$	85.00	/hour	$	2,040.00
Special Inspector	Post-Installed Anchor Installation Inspection	20 hours	@	$	85.00	/hour	$	1,700.00
Field Technician	Pull & Torque Testing of Post-Installed Anchor / Epoxy Dowels	16 hours	@	$	89.00	/hour	$	1,424.00
Special Inspector	Structural Steel welding Inspection in the Shop and Field	40 hours	@	$	85.00	/hour	$	3,400.00
Field Technician	Non Destructive Testing (UT/MT)	8 hours	@	$	95.00	/hour	$	760.00
Field Technician	Sample Pick Up (Concrete Cylinders)	12 hours	@	$	85.00	/hour	$	1,020.00
Vehicle Charge	Vehicle Usage	144 hours	@	$	10.00	/hour	$	1,440.00
Reinforcing Steel	Tensile & Bend Tests	8 tests	@	$	105.00	/test	$	840.00
Concrete Cylinders	Compression Tests, 4"x 8" Cylinders (5 Cylinders/50 CYs)	25 tests	@	$	30.00	/test	$	750.00
					Subtotal			**$ 15,414.00**
Task 3 - Project Management								
Principal Engineer	Consultation, Verified Reports & Project Oversight	4 hours	@	$	155.00	/hour	$	620.00
Project Engineer	Submittal Review, Report Preparation & Project Co-ordination	10 hours	@	$	133.00	/hour	$	1,330.00
Project Assistant	Data Compilation, Dispatch & Word Processing	8 hours	@	$	80.00	/hour	$	640.00
					Subtotal			**$ 2,590.00**
TOTAL ESTIMATED FEE								**$ 28,110.00**

Schedule of Fees

Hourly Charges for Personnel

Principal Engineer/Geologist/Environmental Scientist	$ 155
Senior Engineer/Geologist/Environmental Scientist	$ 150
Senior Project Engineer/Geologist/Environmental Scientist	$ 140
Project Engineer/Geologist/Environmental Scientist	$ 133
Senior Staff Engineer/Geologist/Environmental Scientist	$ 120
Staff Engineer/Geologist/Environmental Scientist	$ 110
GIS Analyst	$ 105
Field Operations Manager	$ 105
Supervisory Technician	$ 100
Nondestructive Examination Technician, UT, MT, LP	$ 95
ACI Concrete Technician	$ 85
Concrete/Asphalt Batch Plant Inspector	$ 85
Special Inspector (Concrete, Masonry, Steel, Welding, and Fireproofing)	$ 85
Senior Field/Laboratory Technician	$ 85
Field/Laboratory Technician	$ 85
Data Processing, Technical Editing, or Reproduction	$ 85
Technical Illustrator/CAD Operator	$ 80
Information Specialist	$ 80

Other Charges

Concrete Coring Equipment (includes one technician)	$ 175/hr
PID/FID Usage	$ 120/day
Anchor load test equipment (includes technician)	$ 89/hr
Hand Auger Equipment	$ 55/day
Inclinometer Usage	$ 32/hr
Vapor Emission Kits	$ 30/kit
Level D Personal Protective Equipment (per person per day)	$ 25/p/d
Rebar Locator (Pachometer)	$ 22/hr
Nuclear Density Gauge Usage	$ 12/hr
Field Vehicle Usage	$ 10/hr
Direct Project Expenses	Cost plus 15 %

Laboratory testing, geophysical equipment, and other special equipment provided upon request.

Notes

For field and laboratory technicians and special inspectors, overtime rates at 1.5 times the regular rates will be charged for work performed in excess of 8 hours in one day Monday through Friday and all day on Saturday. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day, all day Sunday and on holidays.

Field technician and special inspection hours are charged portal to portal at a 4-hour minimum, and 8-hour minimum for hours exceeding 4 hours.

Invoices are payable upon receipt. A service charge of 1.5 percent per month may be charged on accounts not paid within 30 days.

Our rates will be adjusted in conjunction with the increase in the Prevailing Wage Determination during the life of the project, as applicable.

The terms and conditions are included in Ninyo & Moore's Work Authorization and Agreement form.

Schedule of Fees for Laboratory Testing

Laboratory Test, Test Designation, and Price Per Test

SOILS

Atterberg Limits, D 4318, CT 204	$	180
California Bearing Ratio (CBR), D 1883	$	440
Chloride and Sulfate Content, CT 417 & CT 422	$	135
Consolidation, D 2435, CT 219	$	275
Consolidation – Time Rate, D 2435, CT 219	$	70
Direct Shear – Remolded, D 3080	$	290
Direct Shear – Undisturbed, D 3080	$	250
Durability Index, CT 229	$	150
Expansion Index, D 4829, UBC 18-2	$	240
Expansion Potential (Method A), D 4546	$	180
Expansive Pressure (Method C), D 4546	$	180
Geofabric Tensile and Elongation Test, D 4632	$	165
Hydraulic Conductivity, D 5084	$	300
Hydrometer Analysis, D 422, CT 203	$	190
Moisture, Ash, & Organic Matter of Peat/Organic Soils	$	110
Moisture Only, D 2216, CT 226	$	30
Moisture and Density, D 2937	$	50
Permeability, CH, D 2434, CT 220	$	290
pH and Resistivity, CT 643	$	160
Proctor Density D 1557, D 698, CT 216, & AASHTO T-180 (Rock corrections add $80)	$	260
R-value, D 2844, CT 301	$	425
Sand Equivalent, D 2419, CT 217	$	110
Sieve Analysis, D 422, CT 202	$	110
Sieve Analysis, 200 Wash, D 1140, CT 202	$	90
Specific Gravity, D 854	$	200
Triaxial Shear, C.D, D 4767, T 297	$	390
Triaxial Shear, C.U., w/pore pressure, D 4767, T 2297 per pt	$	330
Triaxial Shear, C.U., w/o pore pressure, D 4767, T 2297 per pt	$	190
Triaxial Shear, U.U., D 2850	$	140
Unconfined Compression, D 2166, T 208	$	100
Wax Density, D 1188	$	90

ROOFING

Built-up Roofing, cut-out samples, D 2829	$	165
Roofing Materials Analysis, D 2829	$	500
Roofing Tile Absorption, (set of 5), UBC 15-5	$	190
Roofing Tile Strength Test, (set of 5), UBC 15-5	$	190

MASONRY

Brick Absorption, 24-hour submersion, C 67	$	45
Brick Absorption, 5-hour boiling, C 67	$	55
Brick Absorption, 7-day, C 67	$	60
Brick Compression Test, C 67	$	45
Brick Efflorescence, C 67	$	45
Brick Modulus of Rupture, C 67	$	40
Brick Moisture as received, C 67	$	35
Brick Saturation Coefficient, C 67	$	50
Concrete Block Compression Test, 8x8x16, C 140	$	60
Concrete Block Conformance Package, C 90	$	1100
Concrete Block Linear Shrinkage, C 426	$	120
Concrete Block Unit Weight and Absorption, C 140	$	55
Cores, Compression or Shear Bond, CA Code	$	85
Masonry Grout, 3x3x6 prism compression, UBC 21-18	$	30
Masonry Mortar, 2x4 cylinder compression, UBC 21-16	$	30
Masonry Prism, half size, compression, UBC 21-17	$	180

CONCRETE

Cement Analysis Chemical and Physical, C 109	$	1,650
Compression Tests, 6x12 Cylinder, C 39	$	30
Concrete Mix Design Review, Job Spec	$	140
Concrete Mix Design, per Trial Batch, 6 cylinder, ACI	$	750
Concrete Cores, Compression (excludes sampling), C 42	$	55
Drying Shrinkage, C 157	$	250
Flexural Test, C 78	$	100
Flexural Test, C 293	$	55
Flexural Test, CT 523	$	100
Gunite/Shotcrete, Panels, 3 cut cores per panel and test, ACI	$	250
Jobsite Testing Laboratory		Quote
Lightweight Concrete Fill, Compression, C 495	$	55
Petrographic Analysis, C 856	$	1,100
Splitting Tensile Strength, C 496	$	80

REINFORCING AND STRUCTURAL STEEL

Fireproofing Density Test, UBC 7-6	$	70
Hardness Test, Rockwell, A-370	$	80
High Strength Bolt, Nut & Washer Conformance, set, A-32	$	205
Mechanically Spliced Reinforcing Tensile Test, ACI	$	95
Pre-Stress Strand (7 wire), A 416	$	140
Chemical Analysis, A-36, A-615	$	120
Reinforcing Tensile or Bend up to No. 11, A 615 & A 706		
No. 8 Rebar	$	55
No. 11 Rebar	$	75
No. 18 Rebar	$	150
Structural Steel Tensile Test: Up to 200,000 lbs. (machining extra), A 370	$	105
Welded Reinforcing Tensile Test: Up to No. 11 bars, ACI	$	80
Tensile Test for Fiberwrap (ASTM D-3039)	$	675

ASPHALT CONCRETE

Asphalt Mix Design, Caltrans	$	2,200
Asphalt Mix Design Review, Job Spec	$	150
Extraction, % Asphalt, including Gradation, D 2172, CT 310	$	215
Film Stripping, CT 302	$	100
Hveem Stability and Unit Weight CTM or ASTM, CT 366	$	195
Marshall Stability, Flow and Unit Weight, T-245	$	215
Maximum Theoretical Unit Weight, D 2041	$	120
Swell, CT 305	$	165
Unit Weight sample or core, D 2726, CT 308	$	90

AGGREGATES

Absorption, Coarse, C 127	$	35
Absorption, Fine, C 128	$	35
Clay Lumps and Friable Particles, C 142	$	100
Cleanness Value, CT 227	$	160
Crushed Particles, CT 205	$	140
Durability, Coarse, CT 229	$	165
Durability, Fine, CT 229	$	165
Los Angeles Abrasion, C 131 or C 535	$	180
Mortar making properties of fine aggregate, C 87	$	275
Organic Impurities, C 40	$	55
Potential Reactivity of Aggregate (Chemical Method), C 289	$	390
Sand Equivalent, CT 217	$	90
Sieve Analysis, Coarse Aggregate, C 136	$	125
Sieve Analysis, Fine Aggregate (including wash), C 136	$	125
Sodium Sulfate Soundness (per size fraction), C 88	$	160
Specific Gravity, Coarse, C 127	$	75
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