

**OHLONE COMMUNITY COLLEGE DISTRICT**

**MEMORANDUM**

TO: Board of Trustees  
FROM: Doug Treadway  
DATE: June 8, 2005  
SUBJECT Approval of Amendment for Geotechnical Services Contract with  
Treadwell and Rollo for Construction Phase Services (Newark)

With the approval of site construction at the Ohlone College Newark Center for Health Sciences and Technology, additional geotechnical testing and evaluation services are required for the construction phase. At the request of the District, Treadwell and Rollo, Inc. has provided a proposal dated May 24, 2005 in an amount not to exceed \$86,035 to provide these services.

Measure A Bond funds from Project #1, the Ohlone College Newark Center for Health Sciences and Technology will be utilized for these services.

With this amendment, the revised contract with Treadwell and Rollo, Inc. for Geotechnical Services will be \$196,547.90.

**RECOMMENDATION:**

The President/Superintendent recommends approval of this amendment to Treadwell and Rollo for Geotechnical Services in an amount not to exceed \$86,035.

Attachments: Treadwell & Rollo, Inc. Amendment #4

**Ohlone Community College District**

**CONTRACT AMENDMENT #4**

**Contract #165-1202-001**

**Date of original contract: February 12, 2003**

**Date of Amendment: June 8, 2005**

This is an Amendment to the Agreement dated February 12, 2003, between **Treadwell and Rollo, Inc.** and **Ohlone Community College District**, formerly *Fremont-Newark Community College* for Geotechnical Services as detailed in Contract number 165-1202-001.

The parties agree to the following additions to the Agreement:

- 1. **Increase of Scope of Work for geotechnical engineering services to provide Construction Phase Services for the Ohlone College Newark Center for Health Sciences and Technology**, as detailed in the Treadwell & Rollo, Inc. proposal and fee schedule dated May 24, 2005 and attached hereto.
- 2. **Treadwell and Rollo will provide services at an amount not to exceed \$86,035.00.**
- 3. **With this Amendment, the total contract amount will be \$196,547.90**, which consists of the original contract-\$38,012.90 and amendment #1-\$57,500.00, amendment #2-\$11,750.00, amendment #3-\$3,250.00 and amendment #4-\$86,035.00.

In all other respects, the terms of the original agreements remain in full effect. However, if there is a conflict between this Amendment and the original agreements, the terms of this Amendment will prevail.

Hadi J. Yap, Ph.D., G.E.  
**Treadwell and Rollo, Inc.**  
555 Montgomery Street, Ste 1300  
San Francisco, CA 94111

Marian Castaneda  
Director of Purchasing, Contract Administration,  
Auxiliary Services  
**Ohlone Community College District**  
43600 Mission Blvd.  
Fremont, CA 94539

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Signature

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Signature

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Date

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Date

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# Treadwell&Rollo

24 May 2005  
Proposal P02-365

Mr. Simon Barros, Jr.  
Director of Facilities  
Ohlone Community College District  
43600 Mission Boulevard  
P.O. Box 3909  
Fremont, CA 94539-0390

Subject: Scope of Services and Fee Estimate  
Geotechnical Engineering Services during Construction  
Ohlone College Newark Center  
Newark, California

Dear Mr. Barros:

Treadwell & Rollo, Inc. is presenting this proposal to provide geotechnical engineering services during construction of the initial phase development of the proposed Ohlone College Newark Center (OCNC) in Newark, California. We performed a geologic hazard evaluation and geotechnical investigation for the initial phase of the proposed OCNC development and presented our findings and recommendations in a report (September 2004). Furthermore, we presented our conclusions and recommendations regarding the grading option selected to mitigate the presence of soil containing pesticides and expansive soil in a letter (Supplement No. 1, January 2005). Supplemental discussion and recommendations for the stiffened grid foundation system that will support the proposed classroom building and ground floor slabs were presented in another letter (Supplement No. 2, February 2005).

## PROJECT DESCRIPTION

The proposed campus will be constructed within an approximately 81-acre site near the intersection of Mowry Avenue and Cherry Street in Newark, California. The campus site is bound by Cherry Street to the north, a Hewlett Packard (Agilent) facility to the northwest, Union Pacific Railroad tracks to the southwest, and a drainage channel to the east. The initial phase development will include a classroom building with four wings, and associated parking, roadway and landscape areas. The classroom building, near the center of the initial phase development, will consist of a two-story, steel-framed structure, with a footprint area of approximately 75,000 square feet. The classroom building will be supported on spread footings interconnected with grade beams. Site improvements for the initial phase development will include roadway and pavement areas around the classroom building. Furthermore, fire-truck access roads will be constructed between the paved roads and classroom building. The remainder of the site will be landscaped. Site grading will require cuts and fills of up to three feet.

**Treadwell & Rollo, Inc.** *Environmental & Geotechnical Consultants*  
555 Montgomery Street, Suite 1300, San Francisco, CA 94111  
Telephone (415) 955-9040 Facsimile (415) 955-9041

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The site is blanketed by 1 to 6 feet of stiff to hard clay that has a moderate expansion potential. The surface clay is underlain by medium stiff to stiff clay that extends to depths varying between 25 and 42 feet below the ground surface (bgs). The clay is underlain by interbedded layers that are primarily sand and gravel extending to about 90 feet bgs. Groundwater levels range from 5 to 7 feet bgs.

The main issues that will affect site grading are the presence of pesticides and expansive soil. All soil containing pesticides (upper 8 to 14 inches) will be removed and placed in the southern portion of the site, outside the initial phase development area. The presence of expansive soil will be mitigated by moisture conditioning the expansive soil and providing select, non-expansive fill (select fill) below interior and exterior slabs.

## **SCOPE OF SERVICES**

The scope of our services during construction and fee estimate are based on the preliminary construction schedule provided to us by Turner Construction dated 2 May 2005, the project construction manager, via email and our experience with similar projects. According to the preliminary construction schedule, site grading, footing, pavement and utility installation will occur over a period of 24 weeks. Foundation installation will occur over a period of eight weeks. On the basis of our experience with similar projects we estimate a total of 100 field days for providing geotechnical engineering services.

During construction, our services will include checking that our assumptions regarding subsurface conditions are consistent with the actual conditions; checking that the construction conforms with the plans and specifications and the intent of our geotechnical recommendations; and providing consultation for unforeseen conditions that arise during construction, if any. Our proposed scope of services during design and construction is presented in the following four tasks:

### **Task 1 – Site Grading**

We will observe subgrade preparation in areas to receive fill or new improvements, excluding landscape areas. We will observe placement and compaction of select fill (building areas, concrete flatwork areas), onsite fill, and test compaction of utility trench backfill. We will also check subgrade and aggregate base compaction in pavement and sidewalk areas. Evaluating compaction will require performing field density tests and laboratory compaction tests. We will perform laboratory tests to determine the maximum dry density and optimum moisture content of on-site soil and imported fill.

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## Task 2 – Subgrade Conditions at Footing Excavations

We will check the subgrade exposed at the proposed footing excavations for proper cleanout and adequate foundation support.

## Task 3 – Consultation and Meetings

On the basis of our experience with similar projects, we anticipate geotechnical consultation will be needed to address unforeseen conditions that may arise during foundation installation and earthwork operations. For this task we propose to provide consultation and attend meetings at your request.

## Task 4 – Report for Geotechnical Engineering Services During Construction

After completion of our services, we will summarize the results of our observations and testing in a report. The report will include a summary of our observations regarding the foundation subgrade, select and onsite fill placement and compaction, subgrade preparation in building, pavement and sidewalk areas, and compaction of aggregate base. Any modifications to the original foundation design made during construction will be included in our final report.

## FEE

We propose to perform the described services on a time-and-expense basis in accordance with our anticipated schedule of charges. Our 2005 Schedule of Charges is attached. Variables in the project make it difficult to determine how much of our field engineer's time will be required. These variables include the efficiency of the grading and utility contractors, the weather, the contractor's schedule, and the amount of retesting of unsatisfactory work. On the basis of the schedule and our assumptions (a total of 100 five-hour field days) we estimate our fee for the four tasks will be \$86,035, as outlined below.

## Tasks 1 and 2 – Site Grading, Subgrade Preparation, Fill Placement and Compaction, Observation of footing excavations

(22 June 2005 to 10 February 2006, based on a total of 100 five-hour field days)

75 hours @ \$170 .....	12,750
75 five-hour visits at \$125 <sup>1</sup> (compaction testing) .....	46,875
25 five-hour visits at \$110 <sup>2</sup> (foundation excavations) .....	13,750
6 laboratory compaction tests @ \$250 .....	1,500
<b>Total for Task 1 .....</b>	<b>\$74,875</b>

<sup>1</sup> \$125/hour includes nuclear gage and field vehicle charges  
<sup>2</sup> \$110/hour includes field vehicle charges

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**Task 3 – Consultation and Meetings**

8 hours @ \$220 .....	\$1,760
20 hours @ \$170 .....	3,400
<b>Total for Task 3 .....</b>	<b>\$5,160</b>

**Task 6 – Report for Geotechnical Engineering**

<b>Services During Construction .....</b>	<b>\$6,000</b>
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<b>TOTAL .....</b>	<b>\$86,035</b>
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If more or less time is required in the field, our fee will be adjusted accordingly. We will coordinate our site visits with your field representative to reduce charges to the project. Project costs will be monitored closely and you will be notified if a budget revision becomes necessary.

**AUTHORIZATION**

Our 2005 Schedule of Charges is attached to this proposal and incorporated herein by reference. When you wish us to proceed, please issue an addendum to our current agreement.

We are looking forward to continue working with you on this exciting and challenging project. If you have questions regarding our proposal, please call.

Sincerely yours,  
TREADWELL & ROLLO, INC.



Maria G. Flessas, G.E.  
Senior Associate



Hadi J. Yap, Ph.D., G.E.  
Principal

P0236504.MGF

cc: Donald R. Eichelberger, Measure A Bond Measure Manager – Stegeman and Kastner, Inc.

Attachment: 2005 Schedule of Charges

## 2005 Schedule of Charges

### TREADWELL & ROLLO – OCNC PROJECT

#### Exhibit A

This Schedule of Charges is incorporated in the Professional Services Agreement of Treadwell & Rollo, Inc. ("T&R") to which it is attached (the "Agreement"). Charges for personnel, outside services, materials and equipment, and T&R equipment shall be as follows.

Personnel Charges – Charges for T&R's personnel shall be at the hourly rates indicated below:

<u>Personnel Category</u>	<u>Hourly Rate (\$)</u>
Document Processing/Production	70 to 100
CAD Technician/Graphics/Senior Editor	70 to 100
GIS Specialist	75 to 125
Staff Engineer/Scientist	75 to 100
Senior Staff Engineer/Scientist/Technician	80 to 110
Project Engineer/Scientist	100 to 135
Senior Project Engineer/Scientist	120 to 155
Senior Engineer/Scientist	130 to 180
Senior Associate Engineer/Scientist	150 to 200
Principal Engineer/Scientist	180 to 300

T&R may augment in-house personnel with subconsultants. Hourly rates for subconsultants shall not exceed those for equivalent in-house personnel. Charges for personnel engaged in litigation support shall be at the rates shown above, except that a 4-hour per day minimum shall apply to any person being deposed or assisting in any deposition, and an 8-hour per day minimum shall apply to any person appearing in court as an expert witness or consultant.

Outside Services, Materials and Equipment Charges – Charges for services, materials and equipment furnished by firms other than T&R shall be equal to 1.1 times the amounts charged T&R for such services, materials, and equipment. This charge includes T&R costs of (a) insurance on subcontracts relating to this Agreement, (b) administration of billing verification and approval, and (c) processing of payments in connection with such services, goods, and materials.

Equipment Rental – Charges for equipment owned by T&R are as follows:

Field Vehicles*	\$13.50 per hour
(*travel time plus time on site)	
Nuclear Moisture-Density Gauge	\$12.50 per hour

Rates for other equipment, such as geotechnical field instrumentation equipment, geophysical exploration equipment, water resources and quality equipment, special exploration support vehicles and equipment, seismology equipment, and geology equipment may be obtained upon request.

Revision of Charges – The charges provided for in the foregoing provisions may be revised annually by T&R, subject to approval by OCNC.

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