



August 26, 2019

Mr. Chris Clark
Project Manager
A.J. Brown, Inc.
635 Trade Center Boulevard
Chesterfield, Missouri 63005

RE: Special Inspection Report No. 1
Goddard School
3395 NE Ralph Powell Road
Lee's Summit, Missouri
Report Period: August 4, 2019 to August 17, 2019
Building Permit #PRCOM20190683
Geotechnology, Inc. Project No.: J034913.01

Dear Mr. Clark:

This letter with attachments will constitute our Special Inspection transmittal for the above referenced project. Representatives of Geotechnology, Inc. have provided field observation and testing services for engineered fill during the report period. Our services have been provided on a part-time basis as scheduled by representatives of A.J. Brown, Inc. The compliance of materials or work not observed by our personnel is not addressed, or implied, by this or any previous report.

Summary of Activities

Engineered Fill

Field density tests were performed in the lean clay placed as low volume change material approximately 12 to 24 inches below design finished grade between August 9 and 13. The fill was placed in approximately 6-inch lifts and compacted with a self-propelled vibratory sheepsfoot roller. The field density tests were evaluated using moisture-density (standard Proctor) relationship tests provided by the Geotechnical Engineer of Record. Results of the field density tests are enclosed.

We understand a representative of the City of Lee's Summit evaluated the stability of the subgrade materials prior to placement of fill materials.

Status of Compliance

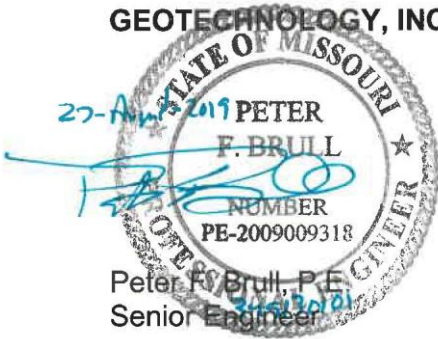
The specific items discussed above in this report appeared to be in general compliance with the contract documents.

Closure

The results of our field observations and testing were reported to authorized personnel during our site visits. If you have any questions regarding this report, or if we may be of further service, please contact us.

Respectfully submitted,

GEOTECHNOLOGY, INC.



Peter F. Brull, P.E.
Senior Engineer



Steve Damron
CMT Department Manager

Attachments: Field Density Test Results

cc: Mr. Ryan Elam – City of Lee's Summit
Mr. Sara Beck – City of Lee's Summit
Mr. Jim Hostler – A.J. Brown, Inc.
Geotechnology S.I. File



Date: 08/09/2019
Client: A.J. Brown Inc.
Project: J034913.01
 Goddard School Lee's Summit
 Lee's Summit, MO

Daily Field Report

General Contractor: A.J. Brown, Inc.

Plans By:

Site Contact: Jim Hostler

Plans Dated:

Temperature/Weather: 73°F Sunny

Arrival: 08:45 **Departure:** 09:45 **Travel (hrs):** 1 **Office/Lab (hrs):** 0.25 **Total (hrs):** 2.25

Item(s) Observed: Field Density Testing

In General Conformance

Location and Description of Observation(s):

Performed field density tests on fill material placed 20 feet east of Line A to Line CA, Line 1 to 9, elevation 984.4. The compaction test results comply with project specifications at the locations and elevations tested. The test results indicated moisture content below the project specifications on test #1 and above the project specifications on test #6. Jim Hostler accepted the test results.

Field Density Test Results

Area Being Filled: First lift of building pad

Compaction Equipment: Sheepsfoot Roller

Description of Fill Material: 1 Brown silty clay

Gauge Information †: 7028413

TABULATION OF FIELD DENSITY TEST RESULTS (ASTM D6938)

| Test No. | Test Location | Elevation (feet) ± | Max. Dry Den. @ Optimum Moisture (pcf @ %) | In Place Dry Density (pcf) | In Place Moisture (%) | Probe Depth | Percent Compaction | Moisture Tolerance (-/+) | Min. Comp. Spec. (%) | Result |
|----------|------------------------------------|--------------------|--|----------------------------|-----------------------|-------------|--------------------|--------------------------|----------------------|----------|
| 1 | Grid D.8/4.5 | 984.4 | 95.1@22.2 ¹ | 106.2 | 17.7 | 6" | 100+ | 2.0/2.0 | 95 | Accepted |
| 2 | Grid C.3/3.5 | 984.4 | 95.1@22.2 ¹ | 98.5 | 21.7 | 6" | 100+ | 2.0/2.0 | 95 | Pass |
| 3 | Grid C.7/8.4 | 984.4 | 95.1@22.2 ¹ | 97.0 | 20.2 | 6" | 100+ | 2.0/2.0 | 95 | Pass |
| 4 | Grid A/8.4 | 984.4 | 95.1@22.2 ¹ | 96.1 | 23.0 | 6" | 100+ | 2.0/2.0 | 95 | Pass |
| 5 | Grid D.7/8.8 | 984.4 | 95.1@22.2 ¹ | 93.5 | 22.4 | 6" | 98 | 2.0/2.0 | 95 | Pass |
| 6 | 8 feet east of Line A and Line 2.1 | 984.4 | 95.1@22.2 ¹ | 90.9 | 26.5 | 6" | 96 | 2.0/2.0 | 95 | Accepted |

† Gauge calibration data is on file at our office and available upon request.

Remarks: Finished grade = 985.7

Superintendent accepted test results not within project specifications based on moisture content.

To the best of my knowledge, work observed today was in general conformance with the project plans and specifications, except discrepancies noted above, if any.



Geotechnology Representative: Bradley Kruse

Signed:

CC: Clark, Chris (A.J. Brown Inc.) (e)

Hostler, James (A.J. Brown Inc.) (e)

Notice: The Geotechnology representative is on site solely to observe specific operations and report opinions to our client. The presence and activities of the Geotechnology field representative do not relieve the contractor's obligation to meet contractual requirements. The contractor retains sole responsibility for site safety and the methods and sequences of construction.



Date: 08/12/2019
Client: A.J. Brown Inc.
Project: J034913.01
 Goddard School Lee's Summit
 Lee's Summit, MO

Daily Field Report

General Contractor: A.J. Brown, Inc.

Plans By:

Site Contact: Jim Hostler

Plans Dated:

Temperature/Weather: 90°F Sunny

Arrival: 15:15 **Departure:** 17:30 **Travel (hrs):** 1.25 **Office/Lab (hrs):** 0.5 **Total (hrs):** 4.00

Item(s) Observed: Field Density Testing

In General Conformance

Location and Description of Observation(s):

Performed field density tests on fill material placed Goddard School, 14 feet east of Line A to Line CA, Line 9 to 16, elevation 984.4. The compaction and moisture content results comply with project specifications at the locations and elevations tested. Jim Hostler was notified of test results.

Field Density Test Results

Area Being Filled: South half of pad, first lift

Compaction Equipment: Sheepsfoot Roller

Description of Fill Material: 1 Brown silty clay

Gauge Information †: 7028413

TABULATION OF FIELD DENSITY TEST RESULTS (ASTM D6938)

| Test No. | Test Location | Elevation (feet) ± | Max. Dry Den. @ Optimum Moisture (pcf @ %) | In Place Dry Density (pcf) | In Place Moisture (%) | Probe Depth | Percent Compaction | Moisture Tolerance (-/+) | Min. Comp. Spec. (%) | Result |
|----------|---------------|--------------------|--|----------------------------|-----------------------|-------------|------------------------|--------------------------|----------------------|----------|
| 1 | Grid D.7/13.5 | 984.4 | 95.1@22.2 ¹ | 92.6 | 22.7 | 6" | 97 | 2.0/2.0 | 95 | Pass |
| 2 | Grid C.8/12.2 | 984.4 | 95.1@22.2 ¹ | 91.5 | 25.5 | 6" | 96 | 2.0/2.0 | 95 | Accepted |
| 3 | Grid A.0/11.2 | 984.4 | 95.1@22.2 ¹ | 82.3 | 25.7 | 6" | 87 | 2.0/2.0 | 95 | Fail |
| 4 | Grid A.0/11.2 | 984.4 | 95.1@22.2 ¹ | 92.7 | 21.5 | 6" | 97 (R-3:08/12/2019) | 2.0/2.0 | 95 | Pass |
| 5 | Grid A.0/13.5 | 984.4 | 95.1@22.2 ¹ | 99.0 | 20.6 | 6" | 100+ | 2.0/2.0 | 95 | Pass |
| 6 | Grid D.7/11.2 | 984.4 | 95.1@22.2 ¹ | 97.1 | 23.2 | 6" | 100+ | 2.0/2.0 | 95 | Pass |

† Gauge calibration data is on file at our office and available upon request.

Remarks: Finished grade = 985.8

Results of Test #2 accepted by Jim Hostler

To the best of my knowledge, work observed today was in general conformance with the project plans and specifications, except discrepancies noted above, if any.



Geotechnology Representative: Bradley Kruse

Signed:

CC: Clark, Chris (A.J. Brown Inc.) (e)

Hostler, James (A.J. Brown Inc.) (e)

Notice: The Geotechnology representative is on site solely to observe specific operations and report opinions to our client. The presence and activities of the Geotechnology field representative do not relieve the contractor's obligation to meet contractual requirements. The contractor retains sole responsibility for site safety and the methods and sequences of construction.



Date: 08/13/2019
Client: A.J. Brown Inc.
Project: J034913.01
 Goddard School Lee's Summit
 Lee's Summit, MO

Daily Field Report

General Contractor: A.J. Brown, Inc.

Plans By:

Site Contact: Jim Hostler

Plans Dated:

Temperature/Weather: 90°F Sunny

Arrival: 14:00 **Departure:** 14:30 **Travel (hrs):** 1 **Office/Lab (hrs):** 0.5 **Total (hrs):** 2.00

Item(s) Observed: Field Density Testing

In General Conformance

Location and Description of Observation(s):

Performed field density tests on fill material placed Goddard School building pad at elevation 984.9. The compaction and moisture content results comply with project specifications at the locations and elevations tested. Jim Hostler was notified of test results and accepted the in-situ soils due to a failed moisture test.

Field Density Test Results

Area Being Filled: Building pad; Elevation of 984.9

Compaction Equipment: Sheepsfoot Roller

Description of Fill Material: 1 Brown silty clay

Gauge Information †: 7028413

TABULATION OF FIELD DENSITY TEST RESULTS (ASTM D6938)

| Test No. | Test Location | Elevation (feet) ± | Max. Dry Den. @ Optimum Moisture (pcf @ %) | In Place Dry Density (pcf) | In Place Moisture (%) | Probe Depth | Percent Compaction | Moisture Tolerance (-/+) | Min. Comp. Spec. (%) | Result |
|----------|-------------------------|--------------------|--|----------------------------|-----------------------|-------------|--------------------|--------------------------|----------------------|--------|
| 1 | 20' west of Grid D/2 | 984.9 | 95.1@22.2 ¹ | 98.9 | 19.2 | 6" | 100+ | 2.0/2.0 | 95 | Fail |
| 2 | 5' east of Grid A/2 | 984.9 | 95.1@22.2 ¹ | 90.5 | 22.6 | 6" | 95 | 2.0/2.0 | 95 | Pass |
| 3 | Grid D/9 | 984.9 | 95.1@22.2 ¹ | 98.9 | 20.7 | 6" | 100+ | 2.0/2.0 | 95 | Pass |
| 4 | 20' west of Grid D/14.5 | 984.9 | 95.1@22.2 ¹ | 92.9 | 22.1 | 6" | 98 | 2.0/2.0 | 95 | Pass |
| 5 | 5' east of Grid A/14.5 | 984.9 | 95.1@22.2 ¹ | 95.2 | 22.8 | 6" | 100 | 2.0/2.0 | 95 | Pass |

† Gauge calibration data is on file at our office and available upon request.

Remarks: Finished grade = 985.8

Result of Test #1 accepted by Jim Hostler

To the best of my knowledge, work observed today was in general conformance with the project plans and specifications, except discrepancies noted above, if any.

Geotechnology Representative: Bradley Kruse

Signed:



CC: Clark, Chris (A.J. Brown Inc.) (e)

Hostler, James (A.J. Brown Inc.) (e)

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