To UNIVERSITY OF ILLINOIS, ATTENTION: Mr. J. F. Osborn
(Date) 13 JUNE 1957

Address 203 ADMINISTRATION BUILDING, URBANA, ILLINOIS

We have completed the following borings for you at SIXTH LIBRARY ADDITION, UNIVERSITY OF ILLINOIS URBANA, ILLINOIS (PURCHASE ORDER # 70502-0)

with results shown below. In accordance with your instructions, we have sent labelled samples of the strata encountered to

Location Plan

See Note Below

Via Raymond Concrete Pile Co.

Location Plan

NOTE: ONE SET OF SOIL SAMPLES WAS DELIVERED TO DR. RALPH PECK AT 113 TALBOT LABORATORY AND A DUPLICATE SET WILL BE Forwarded To GRAHAM, ANDERSON PROBST & WHITE, 60 EASY JACKSON BOULEVARD, CHICAGO 4, ILLINOIS.

Borings completed 1 MARCH 1957
RAYMOND JOB 6-1956-4
Borings Covered on This report

Compass Points NORTH

This boring report prepared in the CHICAGO OFFICE of the LIBRARY

By

Job No. B-1956-4
TEST BORING REPORT
RAYMOND
CONCRETE PILE COMPANY
GOW DIVISION

To: UNIVERSITY OF ILLINOIS Date: 13 JUNE 1957 Job No. 8-29710-2
Location of Borings: SIXTH LIBRARY ADDITION, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS

All borings are plotted to a scale of 1" = 4 ft. using ELEVATIONS SUPPLIED as a fixed datum.

No. 53 No. 54 No. 55

GROUND
SURFACE
ELEVATION
737.87'

GROUND
SURFACE
ELEVATION
736.89'

BLACK LOAM
7 2'9"

BLACK LOAM
6 4'10"

MEDIUM BROWN
SILTY
CLAY, SOME
FINE SAND
5

MEDIUM BROWN
SILTY CLAY,
TRACE FINE
SAND, SMALL
GRAVEL NOTED,
(MAY BE FILL)
5

STIFF
BROWN
SILTY
SANDY
CLAY WITH
SMALL GRAVEL
10

STIFF
BROWN
SILTY
SANDY
CLAY WITH
SMALL GRAVEL
15

STIFF GRAY
SILTY SANDY
CLAY WITH
SMALL GRAVEL
14

STIFF GRAY
SILTY SANDY
CLAY WITH
SMALL GRAVEL
14

ASPHALT & BOX

BROWN CLAY,
CINDER FILL
7 2'6"

BLACK LOAM
6 4'10"

MEDIUM BROWN
SILTY CLAY,
TRACE FINE
SAND, SMALL
GRAVEL NOTED,
(MAY BE FILL)
5

STIFF
BROWN
SILTY
SANDY
CLAY WITH
SMALL GRAVEL
10

STIFF GRAY
SILTY SANDY
CLAY WITH
SMALL GRAVEL
14

USED 10'10" OF
2-1/2" CASING
5/15/57

USED 10'10" OF
2-1/2" CASING
5/15/57

Classification are made by visual inspection.

Water levels (WL). Figure indicates time of reading (hours) after completion of boring. Water levels indicated are those observed when borings were made, or as noted. Porosity of the soil strata, variations of rainfall, site topography, etc., may cause changes in these levels.

Figures in right hand column indicate number of blows required to drive piles to that point.

Total Footage: 50'10"

Foreman: ROBERT RYTHNER
Classification by: JR & YO

Sheet 2 of 2
To UNIVERSITY OF ILLINOIS, ATT: MR. J. E. OSBORN
Address 203 ADMINISTRATION BUILDING, URBANA, ILLINOIS

We have completed the following borings for you at THE PROPOSED 6TH & 7TH ADDITIONS OF THE LIBRARY
BUILDING, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS (PURCHASE ORDER # 66940-0)
with results shown below. In accordance with your instructions, we have sent labelled samples of the strata encountered

*SEE NOTE BELOW

Via Raymond Concrete Pile Co.

OTE: ONE SET OF SOIL SAMPLES WAS LOCATION PLAN SCALE 1: 80'
DELIVERED TO DR. RALPH PECK AT 113 TALBOT LABORATORY
AND A DUPLICATE SET WILL BE FORWARD TO GRAHAM, ANDERSON,
PROBST & WHITE, WITHIN THE NEXT FEW DAYS.

This boring report prepared in the CHICAGO OFFICE of the

By: WM CL
Job No. B.-19985-0.
TEST BORING REPORT
RAYMOND
CONCRETE PILE COMPANY
GOW DIVISION

To UNIVERSITY OF ILLINOIS
Date 11 MARCH 1957
Location of Borings PROPOSED 6TH & 7TH LIBRARY ADDITIONS, URBANA, ILLINOIS

All borings are plotted to a scale of 1" = 4' using ELEVATIONS SUPPLIED as a fixed datum.

<table>
<thead>
<tr>
<th>No. 13</th>
<th>No. 14</th>
<th>No. 15</th>
<th>No. 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>745' GROUND</td>
<td>745' GROUND</td>
<td>739.70' GROUND</td>
<td>739.17' GROUND</td>
</tr>
<tr>
<td>SURFACE</td>
<td>SURFACE</td>
<td>ELEVATION</td>
<td>ELEVATION</td>
</tr>
<tr>
<td>737.55'</td>
<td>737.25'</td>
<td>739.70'</td>
<td>739.17'</td>
</tr>
<tr>
<td>ELEVATION</td>
<td>ELEVATION</td>
<td>ELEVATION</td>
<td>ELEVATION</td>
</tr>
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<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0'</td>
<td>BROWN CLAY WITH CINDER FILL</td>
</tr>
<tr>
<td>3'0&quot;</td>
<td>BLACK LOAM, SOME BROWN CLAY</td>
</tr>
<tr>
<td>4'6&quot;</td>
<td>STIFF BROWN SILTY CLAY, TRACE FINE SAND, SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td>3'10&quot;</td>
<td>STIFF BROWN CLAY (MAY BE FILL)</td>
</tr>
<tr>
<td>4'9&quot;</td>
<td>MEDIUM BROWN &amp; GRAY SILTY CLAY, TRACE FINE SAND, SOME SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td>8'10&quot;</td>
<td>SOFT BROWN SILTY CLAY, SOME FINE SAND, SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td>11'6&quot;</td>
<td>VERY SOFT BROWN &amp; GRAY SILTY CLAY, SOME FINE SAND, SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td>20'1&quot;</td>
<td>STIFF BROWN &amp; GRAY SILTY CLAY, SOME FINE SAND, SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td>15'1&quot;</td>
<td>VERY STIFF BROWN SILTY CLAY, SOME FINE SAND, SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td>20'1&quot;</td>
<td>VERY STIFF BROWN SILTY CLAY, SOME FINE SAND, SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td>23'0&quot;</td>
<td>VERY STIFF BROWN SILTY CLAY, SOME FINE SAND, SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td>25'1&quot;</td>
<td>VERY STIFF BROWN SILTY CLAY, SOME FINE SAND, SMALL GRAVEL NOTED</td>
</tr>
</tbody>
</table>

Location of Boring: PROPOSED 6TH & 7TH LIBRARY ADDITIONS, URBANA, ILLINOIS.
<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Type of Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>710'</td>
<td>STIFF GRAY,</td>
</tr>
<tr>
<td></td>
<td>VERY STIFF</td>
</tr>
<tr>
<td></td>
<td>GRAY, VERY</td>
</tr>
<tr>
<td></td>
<td>SILTY SANDY</td>
</tr>
<tr>
<td></td>
<td>CLAY WITH</td>
</tr>
<tr>
<td></td>
<td>SMALL GRAVEL</td>
</tr>
<tr>
<td></td>
<td>SAND SEAMS</td>
</tr>
</tbody>
</table>

**Note:** Used 15' of 2-1/2" casing. 

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Type of Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>705'</td>
<td>STIFF GRAY,</td>
</tr>
<tr>
<td></td>
<td>VERY SANDY</td>
</tr>
<tr>
<td></td>
<td>GRANULITY</td>
</tr>
<tr>
<td></td>
<td>SILTY CLAY</td>
</tr>
</tbody>
</table>

**Note:** Used 9' of 2-1/2" casing. 

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Type of Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>700'</td>
<td>STIFF GRAY,</td>
</tr>
<tr>
<td></td>
<td>VERY SANDY</td>
</tr>
<tr>
<td></td>
<td>GRANULITY</td>
</tr>
<tr>
<td></td>
<td>SILTY CLAY</td>
</tr>
</tbody>
</table>

**Note:** Used 13 1/2' of 2-1/2" casing. 

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Type of Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>695'</td>
<td>STIFF GRAY,</td>
</tr>
<tr>
<td></td>
<td>VERY SANDY</td>
</tr>
<tr>
<td></td>
<td>GRANULITY</td>
</tr>
<tr>
<td></td>
<td>SILTY CLAY</td>
</tr>
</tbody>
</table>

**Note:** Used 13 1/2' of 2-1/2" casing. 

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Type of Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>690'</td>
<td>STIFF GRAY,</td>
</tr>
<tr>
<td></td>
<td>VERY SANDY</td>
</tr>
<tr>
<td></td>
<td>GRANULITY</td>
</tr>
<tr>
<td></td>
<td>SILTY CLAY</td>
</tr>
</tbody>
</table>

**Note:** Used 13 1/2' of 2-1/2" casing. 

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Type of Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>685'</td>
<td>STIFF GRAY,</td>
</tr>
<tr>
<td></td>
<td>VERY SANDY</td>
</tr>
<tr>
<td></td>
<td>GRANULITY</td>
</tr>
<tr>
<td></td>
<td>SILTY CLAY</td>
</tr>
</tbody>
</table>

**Note:** Used 13 1/2' of 2-1/2" casing.

---

*Indicates Lost Circulating Water*

Classifications are made by visual inspection.

Water levels (WL). Figure indicates time of reading (hours) after completion of boring.

Water levels indicated are those observed when borings were made, or as noted. Porosity of the soil strata, variations of rainfall, site topography, etc., may cause changes in these levels.

Figures in right hand column indicate number of blows required to drive 2" O.D. sampling pipe for a 140-lb. weight falling 10 inches.
Memorandum to File

On January 23, 1962 I met with Mr. Little and Mr. Davis of the
University Architects office to discuss the foundation requirements for
the seventh addition to the library. The architects had proposed a design
about soil pressure of 2,000 lb. per square ft at elevation 730. This is not
satisfactory because of the existence of inferior material below this elevation.

Therefore the following suggestions were made.

Footing foundations can be established at elevation 724 or below.

At this elevation a bearing value of 4,000 lb. per square ft is recommended.

Inasmuch as this is a relatively lightly loaded office space, it appears that individual foundations might be conveniently established on drilled piers. These should most likely be founded at or below elevation 720 at an allowable bearing pressure of 6,000 lb. per square ft. An alternate suggested was the use of pile foundations for this structure.

H. O. Ireland
Re: Foundation Design, 
Library Stack Addition

February 13, 1946

Mr. Ernest L. Stouffer
University Architect
236 Administration Bldg.
Urbana, Illinois

Dear Sir:

In accordance with your request the writer has looked over the drawings Sheets 1, 2, 3, 4, 5, 8, and 9 of the Fifth Addition to the Library, as furnished by your office. On January 11th he made an inspection of this building at the site, and reports the following observations:

1. Evidences of movement between the Fifth Addition and the previously built stack section were found on both the north and south elevations where the spandrels of the Fifth Addition above the concrete base wall and adjoining the previously built section showed small cracks extending upward and diagonally westward to meet about the midpoint of the first window sill at each story. The concrete base wall extends to the third floor line and is jointed where it meets the stack section previously built, which joint allows sufficient movement so that the concrete spandrels of the base wall are not cracked at this point. (Similar and more pronounced cracks were found in both the base and upper spandrels of the previously built stack section where it joins the original stack section to the east.)

2. Evidence of independent corner action at the northwest and southwest corners of the building was found, as indicated by small cracks through the exterior brick masonry at varying levels adjacent to the corners.

3. The inspection of the interior of the building showed cracks at each floor line between floor slab of the Fifth Addition and the previously built wall of the earlier stack section varying from a small crack in the 1st floor to a 3/16" opening at the 5th floor and about 5/16" at the 10th floor. In every case the expansion bolts anchoring the stack columns to the old wall were pulled out from the wall a distance corresponding to the adjacent crack width.
4. A diagonal crack across the northwest and southwest corners of the 4th and 5th floor slabs about four to five feet from the corner seemed to substantiate evidence previously mentioned, of independent corner action between wall and the main body of the floor slab.

5. Cracks extending east and west in the thin floor slabs appeared more or less at random, and one was particularly noticeable in the main center aisle where a conduit was located in the slab and formed a weakened section.

6. At the close of the inspection it was decided to take levels on the typical floors at mid-height of building and plumb the west wall to determine to what extent it was leaning to the west. (These measurements just received from your office indicate that the top of the west wall is leaning to the west about 1", and that the floor slab in the northwest corner of the 4th floor appears to be down about 1" below zero elevation established at the center passageway about 1'-0" from the old wall of the previously built stack section.)

After studying the matter carefully the writer believes that the adjustment of each new stack addition as it is built and loaded is bound to cause certain minor cracks, and that the ones observed in the Fifth Addition are not of major importance. Certain design changes can be made in the New Addition to reduce the wall and slab cracking observed under the present design, and the following recommendations are made with this in view:

1. Extend the wall footings about 3 ft. deeper to Elev. 727.50 where the borings indicate that a somewhat better clay soil exists.

2. Provide a slip joint in the brick masonry between the New Addition and the Fifth Addition so that a definite vertical joint is effected the same as in the concrete base wall.

3. Provide vertical weakened plane control joints in the west concrete base wall over the center of the second story windows to obviate random cracking in this wall.

4. Provide three weakened plane joints extending east and west in each floor slab at approximately 30 ft. centers and located at center of span between columns. Install additional top reinforcement in a north and south direction similar to the top reinforcing in the opposite direction, thereby controlling and reducing the random cracking of these thin slabs.
The writer will be pleased to discuss this examination and report in greater detail with you if it will be of assistance in carrying out any of its recommendations. The Stack Additions inspected are in sound condition, and the defects which are caused by adjustment of the structures under load are of rather minor significance structurally.

Respectfully submitted,

WESTCOTT ENGINEERING COMPANY

By  
C. H. Westcott
**EXPLORATORY BORING DATA SHEET**

**Ralph B. Peck**

Date: 3-1-1957  
Location: Library addition  
Operator: L. M.  
Ground Surface Elevation: 737.95  

<table>
<thead>
<tr>
<th>Bor.</th>
<th>Smp.</th>
<th>Depth</th>
<th>Elev.</th>
<th>N</th>
<th>Strength Test Est.</th>
<th>w</th>
<th>LL</th>
<th>PL</th>
<th>Cont.</th>
<th>Description</th>
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<tbody>
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<td>2-0</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>brown clayey mix of cinders</td>
</tr>
<tr>
<td>3</td>
<td>4-6</td>
<td>17</td>
<td>1.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>brown clayey mix</td>
</tr>
<tr>
<td>5</td>
<td>7-0</td>
<td>12</td>
<td>3-10</td>
<td></td>
<td>0.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>yellowish brown stiff clayey mix of organic matter</td>
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<tr>
<td>4</td>
<td>10-0</td>
<td>3</td>
<td>139</td>
<td></td>
<td>17</td>
<td>150</td>
<td></td>
<td></td>
<td></td>
<td>clayey very fine sandy mix</td>
</tr>
<tr>
<td>5</td>
<td>12-6</td>
<td>11</td>
<td>1.74</td>
<td></td>
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<td>64</td>
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<td>very fine sandy mix of traces of clay</td>
</tr>
<tr>
<td>6</td>
<td>15-0</td>
<td>11</td>
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<td>113</td>
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<td>17-6</td>
<td>15</td>
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<td>19.9</td>
<td>110</td>
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<td></td>
<td>11.8</td>
<td>143</td>
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</tr>
<tr>
<td>9</td>
<td>25-0</td>
<td>2.8</td>
<td>-</td>
<td></td>
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<td>-</td>
<td></td>
<td></td>
<td></td>
<td>gray</td>
</tr>
<tr>
<td>10</td>
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<td>14</td>
<td>-</td>
<td></td>
<td></td>
<td>-</td>
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<td></td>
<td></td>
<td>gray gravel of shell gravel and sand</td>
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</tbody>
</table>

Depths and Elevations in feet  
Strength is Compressive strength in tons per sq. ft.
**Ralph B. Peck**  
**Exploratory Boring Data Sheet**

<table>
<thead>
<tr>
<th>Bor. Samp.</th>
<th>Depth</th>
<th>Elev.</th>
<th>N</th>
<th>Strength Test Est.</th>
<th>W</th>
<th>LL</th>
<th>PL</th>
<th>Cont.</th>
<th>Description</th>
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<td>6</td>
<td>6</td>
<td></td>
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<td>cinder fill.</td>
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<td>brown on wet w/ hour of clay</td>
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<tr>
<td>3 6</td>
<td>6.0</td>
<td>6.55</td>
<td>28.5</td>
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<td>5.78</td>
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<td></td>
<td></td>
<td>w/ course pebbles</td>
</tr>
<tr>
<td>5 11 6</td>
<td>6</td>
<td>2</td>
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<td></td>
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<td></td>
<td></td>
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<td>4.65</td>
<td>17</td>
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<tr>
<td>7 17 6</td>
<td>10</td>
<td>3.19</td>
<td>50</td>
<td>151</td>
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<tr>
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<td>22</td>
<td>5.4</td>
<td>11</td>
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<td>grey silt very fine sandy fill w/ pebbles</td>
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<tr>
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<td>22</td>
<td>5.4</td>
<td>11</td>
<td>107</td>
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<td>grey silt very fine sandy fill w/ pebbles</td>
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<tr>
<td>11 30</td>
<td>16</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>black and grey silt clay w/ stones and roots</td>
</tr>
<tr>
<td>12 4.6</td>
<td>8</td>
<td>1.94</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td>silt clayey silt</td>
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<tr>
<td>13 6.6</td>
<td>12</td>
<td>3.0</td>
<td>30</td>
<td>161</td>
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<td></td>
<td>black clayey fill</td>
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<tr>
<td>14 8.0</td>
<td>5</td>
<td>1.55</td>
<td>25</td>
<td>335</td>
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<td>greenish grey silt clay</td>
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<tr>
<td>15 10.0</td>
<td>3</td>
<td>1.78</td>
<td>35</td>
<td>116</td>
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<td>16 12.6</td>
<td>4</td>
<td>1.16</td>
<td>15</td>
<td>183</td>
<td></td>
<td></td>
<td></td>
<td>grey</td>
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</tr>
<tr>
<td>17 15.0</td>
<td>17</td>
<td>3.49</td>
<td>15</td>
<td>152</td>
<td></td>
<td></td>
<td></td>
<td>clayey fill</td>
<td></td>
</tr>
<tr>
<td>18 17.6</td>
<td>18</td>
<td>2.71</td>
<td>12</td>
<td>59</td>
<td></td>
<td></td>
<td></td>
<td>very fine sandy fill w/ pebbles</td>
<td></td>
</tr>
<tr>
<td>19 20.0</td>
<td>18</td>
<td>3.49</td>
<td>11</td>
<td>53</td>
<td></td>
<td></td>
<td></td>
<td>grey very fine sandy fill w/ small pebbles</td>
<td></td>
</tr>
<tr>
<td>20 25.0</td>
<td>12</td>
<td>4.66</td>
<td>12.7</td>
<td>177</td>
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</tbody>
</table>

 Depths and Elevations in feet  
Strength is Compressive strength in tons per sq. ft.
# EXPLORATORY BORING DATA SHEET

---

**Date:** 2-29-1950  
**Location:** University of Illinois - Library Addition  
**Operator:** L. H.  
**Ground Surface Elevation:** 739.17  

**Depth and Elevations in feet**  
**Strength is Compressive strength in tons per sq. ft.**

<table>
<thead>
<tr>
<th>Bor.</th>
<th>Samp.</th>
<th>Depth</th>
<th>Elev.</th>
<th>N</th>
<th>Strength Test Est.</th>
<th>w</th>
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<th>PL</th>
<th>Cont.</th>
<th>Description</th>
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<td>1</td>
<td>9'</td>
<td></td>
<td>7</td>
<td>1.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>brown clayey sandy silt (Topsoil)</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td>brown clayey silt and sand</td>
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<tr>
<td>3</td>
<td>5'</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>light brown with a little gravel</td>
</tr>
<tr>
<td>4</td>
<td>4'</td>
<td>19.2</td>
<td></td>
<td></td>
<td>1.48</td>
<td>108</td>
<td></td>
<td></td>
<td></td>
<td>sanders' Point (Rice?)</td>
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<tr>
<td>5</td>
<td>19'</td>
<td>1.74</td>
<td></td>
<td>4</td>
<td>14.6</td>
<td>90</td>
<td></td>
<td></td>
<td></td>
<td>Boll</td>
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<tr>
<td>6</td>
<td>12'</td>
<td>5.48</td>
<td></td>
<td>4</td>
<td>12.8</td>
<td>121</td>
<td></td>
<td></td>
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<td>very fine sandy silt with gravel</td>
</tr>
<tr>
<td>7</td>
<td>15'</td>
<td>3.1</td>
<td>5.48</td>
<td>11</td>
<td>11.0</td>
<td>104</td>
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<td></td>
<td></td>
<td>very fine sandy silt with gravel</td>
</tr>
<tr>
<td>8</td>
<td>17'</td>
<td>4.25</td>
<td></td>
<td>12</td>
<td>11.0</td>
<td>103</td>
<td></td>
<td></td>
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<td>very fine sandy silt with gravel</td>
</tr>
<tr>
<td>9</td>
<td>20'</td>
<td>4.25</td>
<td></td>
<td>19</td>
<td>10.8</td>
<td>92</td>
<td></td>
<td></td>
<td></td>
<td>very fine sandy silt with gravel</td>
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<tr>
<td>10</td>
<td>25'</td>
<td>3.70</td>
<td></td>
<td>12</td>
<td>11.8</td>
<td>92</td>
<td></td>
<td></td>
<td></td>
<td>very fine sandy silt with gravel</td>
</tr>
<tr>
<td>11</td>
<td>30'</td>
<td>2.75</td>
<td></td>
<td>14</td>
<td>11.8</td>
<td>92</td>
<td></td>
<td></td>
<td></td>
<td>very fine sandy silt with gravel</td>
</tr>
</tbody>
</table>

---
Mr. Ralph B. Peck  
Res. Asst. Prof. of Soil Mechanics  
College of Engineering  

Dear Mr. Peck:  

Please accept our thanks for your letter of March 6. Your advice, and that of Mr. Westcott, is greatly appreciated.  

We will follow your suggestions and prepare our drawings showing the footings in normal relation to the floor, which is one foot lower than the previous building level. Then, in our specifications we will ask bidders to name a unit price for each foot lowered, and to provide for test borings in the bottom of the footing (to be filled with concrete at the time the excavations are made). If it seems desirable to lower the footings, such can be done at that time.  

Yours very truly,  

PHYSICAL PLANT DEPARTMENT  

By Ernest J.  

ELS: ji  
CC: Mr. W.H. Stermer
March 6, 1946

Mr. Ernest L. Stouffer
University Architect
256 Administration Bldg.
Urbana, Illinois

Dear Mr. Stouffer:

According to your request, I have read Mr. Westcott's letter of February 13, concerning the structural condition of the University Library.

Mr. Westcott's recommendation that the new addition to the Library Stacks be separated from the old by definite vertical joints is in agreement with my own views. On the basis of my examination of the present parts of the structure, I concluded that the settlement of the Stacks has been very moderate and that the structure as a whole is in excellent physical condition. I can see no reason for modifying the structural design in an attempt to reduce the settlement. Separation of the new and old parts so that independent movement is possible should take care of the differential movements which are more or less inevitable in this type of structure.

Mr. Westcott has also indicated the desirability of extending the footings about three feet deeper where the borings indicate that a somewhat better clay soil exists. I also concur in this recommendation provided that it can be demonstrated that the soil actually improves three feet below the present footing level. Before construction begins, I would suggest that we make a few auger borings with our own equipment to determine whether or not the soil really becomes stronger with depth.

Sincerely yours,

Ralph B. Peck
Res. Asst. Prof. of Soil Mechanics

RPP:rbh
We are enclosing three copies of our final boring report covering the test borings we recently completed for you at the above captioned site.

One set of soil samples was delivered to Dr. Ralph Peck at 113 Talbot Laboratory and a duplicate set will be forwarded to Graham, Anderson, Probst & White, within the next few days.

We sincerely appreciate this opportunity of again serving you and trust that our work is all in order. If additional copies of this report are needed or if we can be of any further assistance to you on this or any other project, please do not hesitate to get in touch with us.

Very truly yours,

RAYMOND CONCRETE PILE COMPANY
GEO DIVISION

G. J. Higgins

encl.

cc: Mr. W. L. Stouffer
    Dr. A. S. Davis
    Graham, Anderson, Probst & White, Architects
    Dr. Peck
    Mr. C. F. Fletcher—Moore
To UNIVERSITY OF ILLINOIS, ATTN: MR. J. E. OBBORN

Address 203 ADMINISTRATION BUILDING, URBANA, ILLINOIS

Date 11 MARCH 1957

We have completed the following borings for you at THE PROPOSED 6TH & 7TH ADDITIONS OF THE LIBRARY BUILDING, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS (PURCHASE ORDER # 66940-3)

with results shown below. In accordance with your instructions, we have sent labelled samples of the strata encountered

Via SEE NOTE BELOW

under date of

Raymond Concrete Pile Co.

ONE SET OF SOIL SAMPLES WAS DELIVERED TO DR. RALPH PECK AT 113 TALBOT LABORATORY AND A DUPLICATE SET WILL BE FORWARDED TO GRAHAM, ANDERSON, PROBST & WHITE, WITHIN THE NEXT FEW DAYS.

Compass Points NORTH

This boring report prepared in the

CHICAGO OFFICE of the

Raymond Concrete Pile Company

By W.M.O.

Job No. B 190096-0

Sheet 1 of 2
# Raymon Concrete Pile Company
## Gow Division

To: UNIVERSITY OF ILLINOIS  
Location of Boring:  

<table>
<thead>
<tr>
<th>No.</th>
<th>Elevation</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>737.95'</td>
<td>Brown clay, with brick &amp; cinder fill</td>
</tr>
<tr>
<td>14</td>
<td>737.25'</td>
<td>Black clay, some broom clay</td>
</tr>
<tr>
<td>15</td>
<td>738.70'</td>
<td>Soft broom clay, gray silty clay, trace fine sand, small gravel noted</td>
</tr>
<tr>
<td>16</td>
<td>739.17'</td>
<td>Very soft broom clay, with cinder fill</td>
</tr>
</tbody>
</table>

**Surface**

- Brown clay, with brick & cinder fill
- Black clay, some broom clay
- Soft broom clay, gray silty clay, trace fine sand, small gravel noted
- Very soft broom clay, with cinder fill

**Elevation**

- Brown clay, with brick & cinder fill
- Black clay, some broom clay
- Soft broom clay, gray silty clay, trace fine sand, small gravel noted
- Very soft broom clay, with cinder fill

**Ground**

- Brown clay, with brick & cinder fill
- Black clay, some broom clay
- Soft broom clay, gray silty clay, trace fine sand, small gravel noted
- Very soft broom clay, with cinder fill

**Notes:**

- Use 10'5" of 2-1/2' casing
- Use 13'6" of 2-1/2' casing
- Use 15'0" of 2-1/2' casing

---

**Stiff Gravelly Silty Clay**

- 23'6"
- 23'16"
- 23'30'0"

**Stiff Gray Silty Clay**

- 23'16"
- 23'30'0"

**Very Sandy Gray Silty Clay**

- 23'16"
- 23'30'0"

**Very Stiff Gray Silty Clay**

- 23'16"

**Gray Very Silty Clay with Small Gravel, Sand & Clay Seams**

- 23'16"
* Indicates Lost Circulating Water

Classifications are made by visual inspection.

Water levels (WL). Figure indicates time of reading (hours) after completion of boring. Water levels indicated are those observed when borings were made, or as noted. Porosity of the soil strata, variations of rainfall, site topography, etc., may cause changes in these levels.

Figures in right hand column indicate number of blows required to drive 2" O.D. sampling pipe one foot, using 140±lb. weight falling 30 inches.

Total Footage: 120' 0"

Foreman: ROBERT RITTYNER
Job No.: 6-19896-C
Classification by: FOREMAN
Sheet 2 of 2
DON'T SAY IT--WRITE IT

Attention....................................................................................................................................................................... Date, NOV. 15-1957

Subject: WATER LEVELS LIBRARY ADDITION

Brings #53 and 54 boiled dry.

Boring No. 53 Water Level = 6'-7" below ground surface 2/15/57.

Boring No. 54 Water Level = 6'-10" " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " 

RAYMOND CONCRETE PILE CO. 

BY E. KITNER
June 13, 1957

Attention: Mr. John Smith

I am enclosing your recent order for 200 concrete piles. The item number on your order is 100M 12-56. The total cost of these piles is $5,600.00. Please note that the delivery date is scheduled for the 20th of June. If there are any changes or additional items required, please let me know immediately.

Thank you,

[Signature]

Additional Information:

- Shipping address: 140 Cedar Street, New York 6, N.Y.
- Contact person: Mr. Raymond
- Phone number: (212) 555-1234

Note: The document contains a copy stamp at the top right corner.
TEST BORING REPORT
RAYMOND
CONCRETE PILE COMPANY
GOW DIVISION
140 CEDAR STREET - NEW YORK 6, N. Y.

To UNIVERSITY OF ILLINOIS, ATTENTION: MR. J. F. OSBORN

Date 13 JUNE 1957

Address 203 ADMINISTRATION BUILDING, URBANA, ILLINOIS

We have completed the following borings for you at SIXTH LIBRARY ADDITION, UNIVERSITY OF ILLINOIS

URBANA, ILLINOIS (PURCHASE ORDER # 70308-J)

with results shown below. In accordance with your instructions, we have sent labelled samples of the strata encountered

To SEE NOTE BELOW

Via Raymond Concrete Pile Co.

under date of

NOTE: ONE SET OF SOIL SAMPLES WAS DELIVERED TO DR. RALPH PECK AT 113 TALBOT LABORATORY AND A DUPLICATE SET WILL BE FORWARDED TO GRAHAM, ANDERSON PROBST & WHITE, 80 EAST JACKSON BOULEVARD, CHICAGO 4, ILLINOIS.

LOCATION PLAN SCALE 1" = 80'

# BORINGS COMPLETED 1 MARCH 1957
RAYMOND JOB 8-19896-0
# BORINGS COVERED ON THIS REPORT

Compass Points NORTH

This boring report prepared in the CHICAGO OFFICE of the Raymond Concrete Pile Company

By

Job No. B. -20712-C

Sheet 1 of 2
All borings are plotted to a scale of 1" = 4 ft. using Elevations Supplied as a fixed datum.

<table>
<thead>
<tr>
<th>No.</th>
<th>Ground Surface Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>53</td>
<td>BLACK LOAM 740' 737.87' 0'</td>
</tr>
<tr>
<td>54</td>
<td>ASPHALT &amp; ROOF 736.89' 0'</td>
</tr>
<tr>
<td></td>
<td>BROWN CLAY, CINDER FILL 7 2'6&quot;</td>
</tr>
<tr>
<td></td>
<td>BLACK LOAM 6 4'6&quot;</td>
</tr>
<tr>
<td></td>
<td>MEDIUM BROWN SILTY CLAY, TRACE FINE SAND, SMALL GRAVEL NOTED, (MAY BE FILL) 5 7'6&quot;</td>
</tr>
<tr>
<td>730'</td>
<td>MEDIUM BROWN SILTY CLAY, TRACE FINE SAND 7 8'0&quot;</td>
</tr>
<tr>
<td></td>
<td>STRONG BROWN SILTY CLAY, TRACE FINE SAND 10 9'6&quot;</td>
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<tr>
<td></td>
<td>VERY SOFT BROWN SILTY SANDY CLAY 4 9'6&quot;</td>
</tr>
<tr>
<td>725'</td>
<td>SMALL GRAVEL NOTED, (MAY BE FILL) 2 11'6&quot;</td>
</tr>
<tr>
<td></td>
<td>MEDIUM BROWN SILTY SANDY CLAY, SMALL GRAVEL NOTED 15 13'0&quot;</td>
</tr>
<tr>
<td></td>
<td>BLACK CLAY, SMALL GRAVEL NOTED 14 13'0&quot;</td>
</tr>
<tr>
<td></td>
<td>STIFF GRAY SILTY SANDY CLAY, SMALL GRAVEL NOTED 14 15'0&quot;</td>
</tr>
</tbody>
</table>

USED 10'0" OF 2-1/2" CASING 5/15/57

Classification are made by visual inspection.

Water levels (WL). Figure indicates time of reading (hours) after completion of boring. Water levels indicated are those observed when borings were made, or as noted. Porosity of the soil strata, variations of rainfall, site topography, etc., may cause changes in these levels.

Figures in right hand column indicate number of blows required to drive 2" O.D. sampling pipe one foot, using 140-lb. weight falling 30 inches.
**EXPLORATORY BORING DATA SHEET**

<table>
<thead>
<tr>
<th>Bor.</th>
<th>Samp.</th>
<th>Depth</th>
<th>Elev.</th>
<th>N</th>
<th>Strength Test Est.</th>
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<th>LL</th>
<th>PL</th>
<th>Cont.</th>
<th>Description</th>
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<tr>
<td>53</td>
<td>1</td>
<td>2'-0&quot;</td>
<td>7</td>
<td>29.0</td>
<td>25.9</td>
<td>78</td>
<td></td>
<td></td>
<td>64</td>
<td>Blk. si. 1/2 grass roots</td>
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<td>2</td>
<td>5'-0&quot;</td>
<td>5</td>
<td>2.3</td>
<td>21.4</td>
<td>Mot. brn. &amp; f. gr. 1/2 fr. ch.</td>
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<tr>
<td>3</td>
<td>7'-6&quot;</td>
<td>7</td>
<td>2.0</td>
<td>16.1</td>
<td>Lt. brn. v.f. sa. 1/2 fr. ch.</td>
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<tr>
<td>4</td>
<td>10'-0&quot;</td>
<td>10</td>
<td>3.1</td>
<td>23.0</td>
<td>Lt. brn. v.f. sa. 1/2 fr. ch.</td>
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<tr>
<td>5</td>
<td>12'-6&quot;</td>
<td>15</td>
<td>14.2</td>
<td>82</td>
<td>Brn. si. 1/2 fr. ch.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>14'-0&quot;</td>
<td>14</td>
<td>3.4</td>
<td>175</td>
<td>Gr. si. 1/2 fr. ch.</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cinder in si. matrix</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Description**

- **54**
  - 1 2'-0" 7 30.6 137 Blk. cl. si.
  - 2 3'-6" 6 1.3 160 Mot. gr. 1/2 brn. cl. si.
  - 3 6'-0" 5 1.5 21.0 160 Mot. gr. 1/2 brn. cl. si.
  - 4 9'-0" 4 0.13 33.3 123 Same 1/2 pocket f. sa.
  - 5 10'-6" 2 0.17 19.8 97 Brn. cl. f. sa. si.
  - 6 13'-6" 7 1.3 16.2 54- Brn. cl. v.f. sa. si.
  - 7 15'-0" 7 1.3 92 Gr. f. sa. si. 1/2 fr. ch.
207 Talbot Laboratory
20 May, 1957

Mr. Peter C. Woo
Physical Plant Department
256 Administration Building

Ref: Library - Sixth Addition

Following our meeting of May 9, we requested two additional
boring adjacent to the 5th addition to the library in an attempt
to learn whether or not the existing structure is underlain by
soils comparable to those encountered under the proposed 6th
addition. We have received the samples from these borings and
have completed our laboratory tests on them. These borings were
numbered 52 and 54. Boring 54 was at the north side and boring
53 was on the south.

These borings were quite different - boring 53 contained
no particularly soft or compressible zones whereas boring 54
contained soft and compressible material at about elevation 726
that is as poor as any material encountered at this site. The
presence of this poor material near the northwest corner of the
existing structure probably explains the observed settlement
that has taken place in this area.

In view of the poor nature of this subsoil, we would not
recommend that it be relied upon for the support of shallow
foundations. We would prefer that this material be removed and
replaced with granular fill. If this compressible material is
not removed from beneath the proposed floor slab, settlements
should be anticipated that will equal or exceed those that have
already been observed for the existing structure. It is unlikely
that the anticipated settlement will exceed twice the values that
have been observed.

It was originally our understanding that a bearing pressure
of only 3600 lbs/sq ft was required for the wall footings. Therefore,
we ascertained that the subsoil was at least this good and
we did not go any further into the matter. As a result of some
of our discussions, we have now reviewed the strength of the sub-
soil below elevation 726. We find that the allowable soil pres-
sure at a factor of safety of 3 is 6000 lbs/sq ft. This is based
upon the average unconfined compressive strength to a depth of
about 3 ft below foundation level for the poorest boring.

H. O. Ireland

Hold

C.C.: Mr. R. K. Spencer
Mr. S. A. Dahlinson
To: Mr. Peter C. Woo  
Physical Plant Department  
256 Administration Building

Res: Library - Sixth Addition

With respect to your memorandum of April 23 and our discussion of last week, the following comments appear to be in order.

It was not the intention that the existing west wall be underpinned. Rather, it was intended that the poor soil be removed in alternate sections up to the existing foundation. However, upon further consideration of this procedure, it does not seem to be as desirable as it would be to leave the material near the footing in place with an excavated slope of 2 horizontal to 1 vertical. The reason for this is that the possible settlement of the existing wall due to excavating close to it is likely to be far more serious than the settlement that the remaining poor soil may contribute to the mat foundation. There is also a certain amount of danger associated with excavation up to the existing footing even over relatively short distances. The reason for this is that the water table is relatively high and there is a possibility that if the excavation were carried up to the wall, the water might carry soil particles out from under the footing.

As regards the proposed retaining wall at the southwest corner of the proposed addition, if spread footings are used, they should be established at the same elevation recommended for the wall footings of the 6th addition (about elevation 725.7 or out of poor material) where an allowable soil pressure of 3600 lbs/sq ft was recommended. However, with footings at this depth, the retaining wall will be relatively high. Therefore, it may prove more economical to establish this on treated timber piles. Piles about 25 ft long could be assigned a unit load of 20 tons at this location.

M. C. Ireland

HOT:smob

Cc: Mr. R. E. Spencer  
Mr. S. A. Dahlstrom
<table>
<thead>
<tr>
<th>SAMPLE NO.</th>
<th>TEST CONTAINER</th>
<th>TEST NO. BLOCK</th>
<th>WET / TARE</th>
<th>DRY / TARE</th>
<th>WT. WATER</th>
<th>TARE</th>
<th>DRY WT.</th>
<th>W %</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>78</td>
<td>105</td>
<td>82</td>
<td>3.5</td>
<td>17.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>137</td>
<td>160</td>
<td>133</td>
<td>97</td>
<td>124</td>
<td>92</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Soil Mechanics Laboratory, University of Illinois
Title: Study of Settlement of Present 6th Add.

Name of Bldg.: L.G. 6th Add.

Page 1 of 2
Date: May 10, 1955 by PCW

10TH FLOOR:

<table>
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<tr>
<th>0.00</th>
<th>-1(\frac{3}{4})</th>
</tr>
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<tr>
<td>-1(\frac{1}{16})</td>
<td>-(\frac{3}{4})</td>
</tr>
<tr>
<td>-1(\frac{1}{8})</td>
<td>-(\frac{1}{2})</td>
</tr>
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</table>

4TH FLOOR:

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<td>-(\frac{1}{16})</td>
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<tr>
<td>-1(\frac{1}{16})</td>
<td>-(\frac{9}{16})</td>
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1ST FLOOR:

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<th>0</th>
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</thead>
<tbody>
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<td>-(\frac{3}{4})</td>
</tr>
<tr>
<td>-1(\frac{3}{16})</td>
<td>-(\frac{3}{4})</td>
</tr>
</tbody>
</table>
**Raymond Concrete Pile Company**

Gow Division

140 Cedar Street, New York 8, N.Y.

**Job No.**

**Date:** May 15, 1957

**Job Address:** Library Addition 411

**Borings Completed:**

**Borings to do:**

**Fixed datum used is:**

---

**Ground surface this boring is:** 737.87

<table>
<thead>
<tr>
<th>Depth</th>
<th>Classification</th>
<th>BE CAREFUL AND ACCURATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM</td>
<td>TO</td>
<td></td>
</tr>
<tr>
<td>Ground Surface</td>
<td>2'-0&quot;</td>
<td>BLACK LORM</td>
</tr>
<tr>
<td>2'-0&quot;</td>
<td>8'-0&quot;</td>
<td>MEDIUM SILTY BROWN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CLAY WITH SOME FINE SAND</td>
</tr>
<tr>
<td>8'-0&quot;</td>
<td>13'-0&quot;</td>
<td>STIFF SILTY SANDY BROWN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CLAY WITH SMALL GRAVEL</td>
</tr>
<tr>
<td>13'-0&quot;</td>
<td></td>
<td>STIFF SILTY SANDY GRAY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CLAY WITH SMALL GRAVEL</td>
</tr>
</tbody>
</table>

**Used 2 1/2" casing 10'-0"**

**Water level is** 2 ft. below Ground surface 6 hrs. after completion

**Water level is** 2 ft. below Ground surface 24 hrs. after completion

**Boring stopped by:** Foreman R. R. Timmer

Boring No. 53
**Job Address: LIBRARY ADDITION N. 1**

**Borings Completed:**

**Borings to do:**

**Fixed datum used is:**

---

**Ground surface this boring is 736.89**

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>CLASSIFICATION</th>
<th>BE CAREFUL AND ACCURATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM</td>
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<tr>
<td>0.3&quot;</td>
<td>0.3&quot;</td>
<td>ASPHALT CRUSHED ROCK</td>
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<tr>
<td>0.3&quot;</td>
<td>2.6&quot;</td>
<td>BROWN CLAY CINDER</td>
</tr>
<tr>
<td>2.6&quot;</td>
<td>4.0&quot;</td>
<td>FILL</td>
</tr>
<tr>
<td>4.0&quot;</td>
<td>7.6&quot;</td>
<td>BLACK LOMO</td>
</tr>
<tr>
<td>4.0&quot;</td>
<td>7.6&quot;</td>
<td>MEDIUM SILTY BROWN CLAY</td>
</tr>
<tr>
<td>4.0&quot;</td>
<td>7.6&quot;</td>
<td>TRACE OF FINE SAND SMALL GRAVEL</td>
</tr>
<tr>
<td>4.0&quot;</td>
<td>7.6&quot;</td>
<td>NOTED FILL INDICATED</td>
</tr>
<tr>
<td>7.6&quot;</td>
<td>9.6&quot;</td>
<td>SOFT SILTY BROWN CLAY</td>
</tr>
<tr>
<td>7.6&quot;</td>
<td>9.6&quot;</td>
<td>SOME CINDER FILL</td>
</tr>
<tr>
<td>9.6&quot;</td>
<td>10.6&quot;</td>
<td>CLAY SMALL GRAVEL</td>
</tr>
<tr>
<td>9.6&quot;</td>
<td>11.6&quot;</td>
<td>NOTED</td>
</tr>
</tbody>
</table>

**Water level is** __________ ft. below Ground surface __________ hrs. after completion

**Water level is** __________ ft. below Ground surface 24 hrs. after completion

**Boring stopped by:**

**Foreman:** R. RITTNER

---

**Form 2638**

RAYMOND

CONCRETE PILE COMPANY

GOW DIVISION

140 CEDAR STREET NEW YORK 6, N.Y.
<table>
<thead>
<tr>
<th>DEPTH</th>
<th>CLASSIFICATION</th>
<th>No. of 30&quot; blows on spoon</th>
<th>Penetration of spoon in inches</th>
<th>LOST WATER</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM</td>
<td>TO</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ground Surface</td>
<td>11'-6&quot;</td>
<td>13'-0&quot;</td>
<td>MEDIUM SILTY SANDY</td>
<td>6-6.15'-0&quot;</td>
</tr>
<tr>
<td></td>
<td>BROWN CLAY SMALL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GRAVEL NOTED</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>13'-0&quot;</td>
<td>15'-0&quot;</td>
<td>STIFF SILTY SANDY</td>
<td>5-7.15'-0&quot;</td>
</tr>
<tr>
<td></td>
<td>CLAY SMALL GRAVEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NOTED</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Water level is __ ft. below Ground surface __ hrs. after completion

Water level is __ ft. below Ground surface 24 hrs. after completion

Boring stopped by: Foreman __ R. RITTLER
Mr. Dahlstrom  
Cts  
Ww  
Stroffer  
Stetson  
Ireland

May 7

Met in Mr. Stroffer's office to discuss foundations for proposed library addition. There is reluctance to excavate beneath slab & replace this with granular material. I held out for excavating foundations deeper for wall. They are going to run some level lines on 5% addition to see what order of magnitude the settlement has been. Perhaps they will agree to accept 2-3 inches anticipated settlement and more than 2 1/4 lbs. material in place.
Date April 23, 1957

To Mr. Ralph B. Peck

From Mr. Peter C. Woo

Copy to Dr. H. O. Ireland
Mr. R. E. Spencer
Mr. S. A. Dahlstrom

Subject LIBRARY - SIXTH ADDITION

In the conversation Mr. R. E. Spencer and I had with Dr. Ireland on April 12, concerning the soil bearing conditions in connection with the construction of the Library - Sixth Addition, it was our understanding that the following was recommended and we are proceeding with our structural drawings accordingly.

1. To remove the poor soil bearing material found as a result of Raymond Concrete Pile Company's test borings, located at elevation 720.67 and elevation 725.70, (test borings No. 16 and No. 15 respectively), and backfill with compacted gravel to the elevation immediately under the proposed concrete mat footings.

2. To under-pin the existing west wall in alternate sections not to exceed 8'-0" at any one time, to the same elevation as the top of the new west wall footing, the elevation of which is 726.7. A safe slope of 1 to 2 being used in all under-pinning work.

3. Install a level line at the existing west wall footing that can be carefully observed for settlement during excavating and backfilling operations.

If the above is not in accordance with Dr. Ireland's understanding or with your recommendations, please let us know.

PHYSICAL PLANT DEPARTMENT

By [Signature]
**Department Requisitioning:** Physical Plant (Arch. Div.)

**Office Address:**

**Date:** May 10, 1957

**TO THE DIRECTOR OF PURCHASES:**

Please Deliver the Following to 256 Administration (W)

**Room Number:**

**Building:**

**Not Later Than:** May, 1957

**Call:** A. S. Davis

**Ext.** 615

**For additional information**

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>CATALOG NUMBER</th>
<th>ITEM (Give Complete Specifications)</th>
<th>Estimated Cost (If Available)</th>
<th>Suggested Vendor (If Available)</th>
<th>P. O. Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Make 2 Cow test borings in locations and to depths as directed by Mr. A. S. Davis at the site of the 6th Addition to Library, in accordance with Raymond Concrete Pile Co. proposal to Mr. E. L. Stouffer dated Nov. 26, 1956. Furnish bottled soil samples in duplicate. Shelby Tube soil samples will not be required. Furnish University 4 copies of boring records.</td>
<td>$300.00</td>
<td>Raymond Concrete Pile Co. 140 Cedar Street New York 16, N. Y.</td>
<td></td>
</tr>
</tbody>
</table>

**APPROPRIATION** Architectural Studies for Future Buildings - Library - 6th Addition

I hereby certify that there is an unobligated balance available for the above expenditures in the appropriation indicated.

Requested by ________________ In Charge

Approved: ____________________ Dean or Adm. Officer

Approved: ____________________

**CLASSIFICATION**

6. Equipment

7. Improvements

4. Other Expense

**BUSINESS OFFICE**

Chief Accountant

Comptroller

Director of Purchases
Date        April 23, 1957
To          Mr. Ralph B. Peck

From        Mr. Peter C. Woo
Copy to     Dr. H. O. Ireland / 
            Mr. R. E. Spencer
            Mr. S. A. Dahlstrom

Subject     LIBRARY - SIXTH ADDITION

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3. Install a level line at the existing west wall footing that can be carefully observed for settlement during excavating and backfilling operations.

If the above is not in accordance with Dr. Ireland's understanding or with your recommendations, please let us know.

PHYSICAL PLANT DEPARTMENT

By          Peter C. Woo

PCW: bmb
Mr. Mathewson, I am, returned to the 1st of July for the 5th of August in 1799. Where this is? Upon the 5th of July of 1799, I was for advising.
**RAYMOND CONCRETE PILE COMPANY**  
GOW DIVISION  
140 CEDAR STREET NEW YORK 6, N.Y.

**JOB No.:****24806-C**  
**DATE:** FEB-28-1957

**Job Address:** UNIVERSITY LIBRARY ADDITION

**Borings Completed:**  
**Borings to do:**

**Fixed datum used is:**

---

**Ground surface this boring is:** 737.95 "

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM</td>
<td>TO</td>
</tr>
<tr>
<td>FROM</td>
<td>TO</td>
</tr>
<tr>
<td><strong>Ground Surface</strong></td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>3'-0&quot;</td>
<td>4'-6&quot;</td>
</tr>
<tr>
<td>4'-6&quot;</td>
<td>8'-0&quot;</td>
</tr>
<tr>
<td>8'-0&quot;</td>
<td>11'-6&quot;</td>
</tr>
<tr>
<td>11'-6&quot;</td>
<td>16'-6&quot;</td>
</tr>
</tbody>
</table>

**Ground Surface Used: 2 1/2" casing**

**Water level is ft. below Ground surface hrs. after completion**

**Water level is ft. below Ground surface 24 hrs. after completion**

**Boring stopped by:** Foreman  
**P. RITTNER**
JOB No. B-19896-C  DATE MARCH 1-1957
Job Address: UNIVERSITY OF ILLINOIS LIBRARY ADDITION
Borings Completed:  Borings to do:
Fixed datum used is:

Ground surface this boring is: 737.95"  

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>CLASSIFICATION</th>
<th>BE CAREFUL AND ACCURATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM</td>
<td>TO</td>
<td></td>
</tr>
<tr>
<td>Ground Surface</td>
<td>SOME FINE SAND, SMALL GRAVEL NOTED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5-5-12'6&quot;</td>
<td>11 12&quot;</td>
</tr>
<tr>
<td></td>
<td>5-6-15'0&quot;</td>
<td>11 12&quot;</td>
</tr>
<tr>
<td>16'0&quot;</td>
<td>23'6&quot;</td>
<td>VERY STIFF, SILTY, GRAY CLAY, WITH TRACE OF FINE SAND, SOME SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td></td>
<td>6-7-17'6&quot;</td>
<td>15 12&quot;</td>
</tr>
<tr>
<td></td>
<td>5-8-20'0&quot;</td>
<td>15 12&quot;</td>
</tr>
<tr>
<td>28'6&quot;</td>
<td>27'0&quot;</td>
<td>DENSE, CLAYEY, FINE TO MEDIUM GRAY SAND, WITH SOME SMALL GRAVEL AND CLAY SEAMS</td>
</tr>
<tr>
<td></td>
<td>5-9-25'0&quot;</td>
<td>28 12&quot;</td>
</tr>
<tr>
<td>27'0&quot;</td>
<td></td>
<td>STIFF, VERY SANDY GRAVELLY, SILTY GRAY CLAY</td>
</tr>
<tr>
<td>Ground Surface</td>
<td>6-10-30'0&quot;</td>
<td>14 12&quot;</td>
</tr>
</tbody>
</table>

Use a 2 1/2" casing 15'0"

Water level is: 0 ft below Ground surface 24 hrs. after completion

Boring stopped by: Foreman R. RITNER
# Raymond Concrete Pile Company

**Job No. E-19896-C**  
**Date:** Feb. 28, 1957  
**Job Address:** LN. OF Ill. LIBRARY ADDITION

---

**Borings Completed**  
**Borings to do**

**Fixed datum used is**

---

**Ground surface this boring is**  
737.25"

---

<table>
<thead>
<tr>
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<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM</td>
<td>TO</td>
</tr>
<tr>
<td>-------</td>
<td>----------------</td>
</tr>
<tr>
<td>Ground Surface</td>
<td></td>
</tr>
<tr>
<td>13'0&quot;</td>
<td>16'0&quot;</td>
</tr>
<tr>
<td>15'12&quot;</td>
<td>15'0&quot;</td>
</tr>
<tr>
<td>16'0&quot;</td>
<td>23'6&quot;</td>
</tr>
<tr>
<td>20'12&quot;</td>
<td>17'12&quot;</td>
</tr>
<tr>
<td>23'6&quot;</td>
<td>16'0&quot;</td>
</tr>
<tr>
<td>28'12&quot;</td>
<td>22'12&quot;</td>
</tr>
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</table>

**Water level is**  
ft. below Ground surface:  
hrs. after completion:

**Water level is**  
ft. below Ground surface:  
24 hrs. after completion:

**Boring stopped by:**

---

**Foreman:** R. RITTNER
**RAYMOND**  
**CONCRETE PILE COMPANY**  
**GOW DIVISION**  
**140 CEDAR STREET NEW YORK 6, N.Y.**

**JOB No. B-19896-C  DATE Feb 23-1957**

**Job Address** **UNIV.-OF-ILL.-LIBRARY ADDITION**

**Borings Completed**  
**Borings to do**

**Fixed datum used is**

<table>
<thead>
<tr>
<th>DEPTH FROM</th>
<th>CLASSIFICATION</th>
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</thead>
<tbody>
<tr>
<td><strong>Ground Surface</strong></td>
<td>1&quot;</td>
</tr>
<tr>
<td>1&quot;</td>
<td>CINDER FILL</td>
</tr>
<tr>
<td>1&quot;</td>
<td>STIFF BROWN CLAY</td>
</tr>
<tr>
<td>2'</td>
<td>STIFF BROWN CLAY</td>
</tr>
<tr>
<td>2'</td>
<td>MEDIUM, SILTY BROWN AND GRAY CLAY</td>
</tr>
<tr>
<td>4'6&quot;</td>
<td>MEDIUM, SILTY BROWN AND GRAY CLAY</td>
</tr>
<tr>
<td>4'6&quot;</td>
<td>HARD SAND, SOME SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td>6'3&quot;</td>
<td>HARD SAND, SOME SMALL GRAVEL</td>
</tr>
<tr>
<td>6'4&quot;</td>
<td>HARD SAND, SOME SMALL GRAVEL</td>
</tr>
<tr>
<td>8'6&quot;</td>
<td>SOFT, SILTY, BROWN AND GRAY CLAY, WITH SOME FINE SAND, SMALL GRAVEL</td>
</tr>
<tr>
<td>8'6&quot;</td>
<td>HARD SAND, SOME SMALL GRAVEL</td>
</tr>
<tr>
<td><strong>Ground Surface</strong></td>
<td>Used 21/2&quot; casing</td>
</tr>
</tbody>
</table>

**Water level is**  
**ft. below Ground surface**  
**hrs. after completion**

**Water level is**  
**ft. below Ground surface**  
**24 hrs. after completion**

**Boring stopped by:** **Foreman R. RITTNER**
CONCRETE PILE COMPANY
GOW DIVISION
140 CEDAR STREET NEW YORK 6, N.Y.

JOB No. B-19386-C  DATE FEB. 27, 1957

Job Address LINCOLN HALL, ILL. LIBRARY

Borings Completed ___________________________ Borings to do ___________________________

Fixed datum used is ___________________________

Ground surface this boring is ___________________________

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM</td>
<td>TO</td>
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<tr>
<td>Ground Surface</td>
<td>4'-6&quot;</td>
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<td></td>
<td>6'-2 2/3&quot;</td>
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<tr>
<td>Ground Surface</td>
<td>4'-6&quot;</td>
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<tr>
<td>Ground Surface</td>
<td>6'-6&quot;</td>
</tr>
<tr>
<td></td>
<td>6'-13'-0&quot;</td>
</tr>
<tr>
<td></td>
<td>5'-6'-12'-6&quot;</td>
</tr>
</tbody>
</table>

Water level is __________ ft. below Ground surface ________ hrs. after completion

Water level is __________ ft. below Ground surface 24 hrs. after completion

Boring stopped by: Foreman R. D. T. J. B.
Form 2638
1000 Pads 3-56

RAYMOND
CONCRETE PILE COMPANY
GOW DIVISION
140 CEDAR STREET NEW YORK 6, N.Y.

JOB No. E-19896-C   DATE FEB. 21, 1957
Job Address UNIV.-OF-IIL LIBRARY ADDITION
Borings Completed         Borings to do
Fixed datum used is

Ground surface this boring is 738.30

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM</td>
<td>TO</td>
</tr>
<tr>
<td>0</td>
<td>13' 0&quot;</td>
</tr>
<tr>
<td>13' 0&quot;</td>
<td>16' 0&quot;</td>
</tr>
<tr>
<td></td>
<td>VERY STIFF, SILTY, BROWN CLAY, WITH SOME FINE SAND, SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td></td>
<td>5-7-10:0&quot;</td>
</tr>
<tr>
<td>16' 0&quot;</td>
<td>18' 0&quot;</td>
</tr>
<tr>
<td></td>
<td>VERY STIFF, SILTY, GRAY AND BROWN CLAY, WITH SOME FINE SAND, SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td></td>
<td>5-8-12:6&quot;</td>
</tr>
<tr>
<td>18' 0&quot;</td>
<td>23' 0&quot;</td>
</tr>
<tr>
<td></td>
<td>VERY STIFF, SILTY GRAY CLAY WITH SOME FINE SAND, SMALL GRAVEL NOTED</td>
</tr>
<tr>
<td></td>
<td>5-9-20:0&quot;</td>
</tr>
<tr>
<td>23' 0&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STIFF, SILTY, GRAY CLAY WITH FINE SAND, SOME SMALL GRAVEL, AND</td>
</tr>
</tbody>
</table>

Ground Surface Used 2½" casing

Water level is _____ ft. below Ground surface ___ hrs. after completion

Water level is _____ ft. below Ground surface 24 hrs. after completion

Boring stopped by: Foreman R. RITTNER
JOB No. B-19896-C  DATE: FEB 22-1957
Job Address: UNIV OF ILL LIBRARY ADDITION

Fixed datum used is

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>CLASSIFICATION</th>
<th>No. of 30&quot; blows on spoon</th>
<th>Penetration of spoon in inches</th>
<th>LOST WATER</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM</td>
<td>TO</td>
<td>BE CAREFUL AND ACCURATE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ground Surface</td>
<td></td>
<td>THIN SAND SEAMS NOTED</td>
<td>12 12&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-10-35'0&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-11-30'0&quot;</td>
<td>16 12&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Water level is _____ ft. below Ground surface 24 hrs. after completion

Boring stopped by: Foreman R. RITTNER
Job No.: E-19896  DATE: FEB-25-1957  
Job Address: UNIV-OF-I.LI: LIBRARY ADDITION

Borings Completed:  
Borings to do:  
Fixed datum used is:  

---

Ground surface this boring is: 739.17”  

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>CLASSIFICATION</th>
<th>BE CAREFUL AND ACCURATE</th>
<th>No. of 30' Bore</th>
<th>Perforation</th>
<th>LOST WATER</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM</td>
<td>TO</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ground Surface</td>
<td>3'-6”</td>
<td>BROWN LOAM - FILL</td>
<td>INDICATED</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3'-1-2'&quot;</td>
<td></td>
<td>7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6'-6&quot;</td>
<td>SOFT BROWN CLAY WITH CINDER FILL</td>
<td>6'-2-5'&quot;</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10'-6&quot;</td>
<td>SOFT BROWN CLAY WITH CINDER FILL NOTED</td>
<td>5'-3-7'6&quot;</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5'-4-9'6&quot;</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8'-5'-10'6&quot;</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10'-6&quot;</td>
<td>STIFF SILTY BROWN CLAY WITH SOME FINE SAND SMALL GRAVEL NOTED</td>
<td>5'-6'-12'6&quot;</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13'-6&quot;</td>
<td>VERY STIFF SILTY BROWN AND GYPSY CLAY WITH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Water level is:  
ft. below Ground surface:  
hrs. after completion:  

Water level is:  
ft. below Ground surface:  
24 hrs. after completion:  

Boring stopped by: Foreman, R. BITTNER
JOB No. B-19896-C  DATE FEB-25-1957
Job Address  UNIV. OF. ILL. LIBRARY ADDITION
Borings Completed  Borings to do

Fixed datum used is

Ground surface this boring is 739.17" [higher]

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>CLASSIFICATION</th>
<th>BE CAREFUL AND ACCURATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROM</td>
<td>TO</td>
<td></td>
</tr>
<tr>
<td>Ground Surface</td>
<td>SOME FINE SAND, GRAVEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NOTED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5.7-15.0&quot;</td>
<td>21 12&quot;</td>
</tr>
<tr>
<td>15.0&quot;</td>
<td>23.0&quot;</td>
<td>VERY STIFF, SILTY, GRAY</td>
</tr>
<tr>
<td>CLAY, WITH SOME FINE SAND, SMALL GRAVEL</td>
<td>NOTED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5.8-17.6&quot;</td>
<td>23 12&quot;</td>
</tr>
<tr>
<td></td>
<td>5.9-20.0&quot;</td>
<td>19 12&quot;</td>
</tr>
<tr>
<td>23.0&quot;</td>
<td></td>
<td>STIFF, SILTY, GRAY CLAY</td>
</tr>
<tr>
<td>WITH SOME FINE SAND AND SMALL GRAVEL</td>
<td>WITH THIN LAYER OF SAND</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6.10-25.0&quot;</td>
<td>12 12&quot;</td>
</tr>
<tr>
<td></td>
<td>6.11-30.0&quot;</td>
<td>14 12&quot;</td>
</tr>
</tbody>
</table>

Used 2 1/2" casing 18"-6"

Water level is ft. below Ground surface hrs. after completion

Water level is ft. below Ground surface 24 hrs. after completion

Boring stopped by: Foreman R. R. TINER
To be lifted.

Suggested removal of poor soil to -13' and backfill with gravel to soil surface. Water?

3550 #/cu yd. DL + LL (40% in aisle & corridor)
500 #/cu yd. D.L.
DON'T SAY IT - WRITE IT

Attention

Date: 1/3/1957

Subject: 3/1956 B. LIBRARY SITE: (WATER LEVELS)

Borings 13, 14, 15, and 16 were cased dry with casing in ground. With casing in ground borings remained dry. After casing removal water levels are as follows:

Boring No. 13: Water level is 8' 6" below ground surface. (Hour Check)
Boring No. 14: Water level is 8' 6" below ground surface. (Hour Check)
Boring No. 15: Water level is 8' 0" below ground surface. (24 Hour Check)
Boring No. 16: Water level is 13' 6" below ground surface. (24 Hour Check)

Due to rain, have surface water at this site.

RAYMOND CONCRETE PILE CO.

By: P. E. TANNER
256 Administration Building
Urbana, Illinois
March 6, 1957

LIBRARY 6TH AND 7TH
ADDITIONS

Raymond Concrete Pile Company
111 West Monroe Street
Chicago 3, Illinois

Gentlemen:

I am enclosing two prints of a drawing revised under date of March 6, to show the correct relationship and the ground surface elevations of test borings numbers 13 to 16 inclusive, made on the site of the Sixth and Seventh Additions to the Library. All of these borings were carried to a depth of thirty feet.

Dr. Ralph Peck has been furnished a copy of your foreman's field logs and one each of the duplicate soil samples taken. Please forward a set of soil samples directly to Graham, Anderson, Probst and White, Architects, 80 East Jackson Boulevard, Chicago 4, Illinois, and send us four copies of the finished boring records for our distribution.

Very truly yours,

PHYSICAL PLANT DEPARTMENT

By Arthur J. Davis

ASD:jzp
enc.

cc: Graham, Anderson, Probst and White - one print of drawing
Dr. Ralph B. Peck, one print of drawing
Mr. Mack Kinch, one print of drawing
Mr. J. A. Curtis, one print of drawing
Mr. R. E. Spencer, one print of drawing
TELEPHONE MEMORANDUM

Date May 29, '57

Person Dick Spencer

Job No. 1615

Re: Library additions

Existing floor: 734.46 +.58
ft² 730.46 +.58

Proposed floor: 1st level +733.46
ft² 728.46 ? Slab?

He is going to send us a net of points.