GOW DIVISION

Our 53rd Year
July 14, 1950

B-7274-C
Proposed Radio Station
Allerton Park approximately
3 miles Southwest of
Monticello, Illinois

University of Illinois
Business Office
Purchasing Division
203 Administration Building, East
Urbana, Illinois

Attn: Mr. G. W. Maxey

Gentlemen:

We enclose three (3) copies of our final boring report for the four (4) GOW TEST BORINGS just completed on the site of the proposed Radio Station Tower, Allerton Park approximately 3 miles Southwest of Monticello, Illinois.

In accordance with your previous instructions, all soil samples recovered from these borings were delivered directly from the job site to Dr. Ralph B. Peck, 113 Talbot Laboratory, University of Illinois, Urbana, Illinois.

We very much appreciate this opportunity of again serving the University of Illinois in a subsurface investigation program, and trust that you will find that our work is all in order.

If additional copies of our final boring report are needed, kindly advise us and we will supply them to you.

Very truly yours,

RAYMOND CONCRETE PILE COMPANY
(GOW DIVISION)

A. Kleinfelder, Jr.

Enc.: Report

cc: Letter and Report:
Dr. Ralph B. Peck,
Urbana, Illinois
TEST BORING REPORT
RAYMOND
CONCRETE PILE COMPANY
GOW DIVISION

To: UNIVERSITY OF ILLINOIS - BUSINESS OFFICE  Date: JULY 14, 1950
Address: PURCH. DIV. - 203 ADMIN. BLDG - URBANA, ILL.

We have completed the following borings for you at THE SITE OF THE PROPOSED RADIO STATION
ALLERTON PARK, APPROX. 3 MILES SOUTH OF MONTICELLO, ILLINOIS
with results as shown below and, in accordance with your instructions, we have sent labelled samples of the strata encountered
To: DR. RALPH B. PECK  Address: 113 TALBOT LABORATORY, URBANA, ILL.
Via DIRECT FROM JOB SITE  under date of VARIOUS  The Gow Company, Inc.

LOCATION PLAN
Scale 1" = NOT TO SCALE—

NOTE—
"BC" IS PARALLEL TO ROAD
PTS D-E-F-G REPRESENT TOWER BASE LOCATION

Compass Points

THIS BORING REPORT COMPILED BY THE CHICAGO OFFICE OF THE RAYMOND CONCRETE PILE COMPANY
Job No. B-7274
Sheet 1 of 2
TEST BORING REPORT
Raymond Concrete Pile Co.
GOW DIVISION

To: UNIVERSITY OF ILLINOIS
Date: JULY 14, 1945
Job No. B=7274-C
Location of Borings: SITE OF PROPOSED RADIO TOWER NEAR MONTICELLO, ILLINOIS

All borings are plotted to a scale of 1" = 4 ft. using U.S.G.S. as a fixed datum.

No. 1  No. 2  No. 3  No. 4

GROUND SURFACE

1676

1672.16 0 1671.89 0

DARK BROWN SILTY LOAM

1'0"

MEDIUM BROWN CLAY

2'6"

SMALL SEAMS OF SILT

7

STIFF BROWN CLAY

2'1"

GROUND SURFACE

1634.64

1634.61 1'0"

DARK BROWN SILTY LOAM

MEDIUM BROWN CLAY

~TRACE OF SAND

7

MEDIUM BROWN VERY SANDY CLAY
~TRACE OF SAND

5'6"

STIFF BROWN SANDY CLAY

9

GROUND SURFACE

1671.06

1671.04 1'0"

DARK BROWN SILTY LOAM

MEDIUM BROWN CLAY

3'0"

 trace of SAND

8

GROUND SURFACE

1665

1665

MEDIUM BROWN SANDY CLAY

~TRACE OF SMALL GRAVEL & SMALL SEAMS OF SAND

8

MEDIUM BROWN SANDY CLAY

~TRACE OF SMALL GRAVEL

6

GROUND SURFACE

1650

1650

MEDIUM BROWN SANDY CLAY

~TRACE OF SMALL GRAVEL & SMALL SEAMS OF SAND

15

MEDIUM BROWN SANDY CLAY

~TRACE OF SMALL GRAVEL

15'0"

GROUND SURFACE

NOTE B - 21

15'6"

STIFF BLUE SANDY CLAY

WASH SAMPLE

15'0"

GROUND SURFACE

I2'6"

STIFF BLUE SANDY CLAY

~TRACE OF SMALL GRAVEL & SMALL SEAMS OF SAND

46

STIFF BLUE SANDY CLAY

~TRACE OF SMALL GRAVEL

24

GROUND SURFACE

1655

1655

STIFF BLUE SANDY CLAY

~TRACE OF SMALL GRAVEL & SMALL SEAMS OF SAND

22

STIFF BLUE SANDY CLAY

~TRACE OF SMALL GRAVEL

25

GROUND SURFACE

15'0"

STIFF BLUE SANDY CLAY

~TRACE OF SMALL GRAVEL

21'6"

GROUND SURFACE

1650

1650

STIFF BLUE SANDY CLAY

~TRACE OF SMALL GRAVEL & SMALL SEAMS OF SAND

45

STIFF BLUE SANDY CLAY

~TRACE OF SMALL GRAVEL

240"

GROUND SURFACE

1650

1650

STIFF BLUE SANDY CLAY

~TRACE OF SMALL GRAVEL & SMALL SEAMS OF SAND

45

STIFF BLUE SANDY CLAY

~TRACE OF SMALL GRAVEL

240"

GROUND SURFACE

1650

1650

STIFF BLUE SANDY CLAY

~TRACE OF SMALL GRAVEL & SMALL SEAMS OF SAND

45

STIFF BLUE SANDY CLAY

~TRACE OF SMALL GRAVEL

240"
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<th>Description</th>
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<tr>
<td>646</td>
<td>Stiff &amp; very stiff blue sandy clay, trace of small gravel &amp; small seams of sand</td>
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<tr>
<td>640</td>
<td>Very stiff blue sandy clay, trace of small gravel, small seams of sand</td>
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<tr>
<td>635</td>
<td>Stiff blue sandy clay, trace of small gravel. Note A - Trace of small seams of sand</td>
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<tr>
<td>630</td>
<td>Trace of small gravel. Note A - Trace of small gravel. Note B - Seams of medium blue sandy clay &amp; coarse gravel, sand, trace of small gravel.</td>
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<td>625</td>
<td>Stiff dark brown silt, trace of small gravel. Note C - Trace of small gravel</td>
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**General Notes**

* Circulating water lost at strata indicated.
* Unable to obtain sample at strata indicated.
* Water levels noted 7-10-50.

**Boring Completed**

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

Total Footage: 150'0"  
Foreman: Geo. Pock  
Classification by: GP  
Sheet: 2 of 2
Mr. Arthurs. Davis
256 Administration Building (W)

Dear Mr. Davis:

At your request, we agreed to investigate the subsoil at the site of the proposed 550 ft high radio tower in Allerton Park. On 22 June, you and Mr. Dixon of your office, Mr. Brugger of WILL, and Mr. Rice and I of the Civil Engineering department, visited the site and made an auger boring to a depth of 18 ft. At this depth, the bottom of the hole caved in and the boring was stopped.

A tentative foundation design based on an allowable soil pressure of 4000 lbs per sq ft showed a footing 18 ft square located at a depth of 12 ft 6 in. below ground surface. Inasmuch as sound foundation engineering requires that the subsoil be investigated to a depth below the footing at least equal to the width of the footing and since we had no previous knowledge of the area, I recommended that a Gow boring be made at each corner of the tower. This was approved and four borings were made by the Raymond Concrete Pile Company.

The results of these borings show that the subsoil consists of about 12 to 15 ft of yellow sandy clay containing some pebbles and seams of sand. Below this is a gray silty clay containing pebbles, some seams of sand, and an occasional sand pocket. One of these sand pockets was encountered by boring number 3 between the depths of 17 ft 6 in. and 24 ft. Boring 1 was carried to a depth of 45 ft and the other 3 borings to 35 ft.

Unconfined compressive strength tests on representative samples taken from the borings indicate that an allowable soil pressure of 6000 lbs per sq ft may be used if the foundation is located at a depth of 12 ft or below.

The uplift forces acting on this foundation constitute a major item in the foundation design. It is suggested that the soil above the footing and within the area bounded by a line forming an angle of 30° with the vertical from the base of the footing be considered as resisting the uplift forces with a unit weight of 100 lbs per ft².

The borings indicate that ground water level is at a depth of about 7 ft. However, I do not believe that this will cause any particular trouble. Adequate drainage should be possible by pumping from open sumps during construction.

I shall be glad to be of any further assistance.

Sincerely,

H. O. Ireland
RADIO TOWER
ALLERTON PARK

June 26, 1950

Mr. J. R. Brugger
234 Gregory Hall

Dear Mr. Brugger:

This will confirm the information given you over the phone this morning concerning test borings which Dr. Peck recommended be made for the radio tower to be located on the site at Allerton Park. Mr. Ireland discussed with Dr. Peck the data obtained from the auger borings to a depth of 18', which we made at the approximate center of the tower on the afternoon of June 22nd. Dr. Peck felt that we had insufficient information to be used as a basis for the design of the radio tower footings in view of the fact that the footing will be in the neighborhood of 12' deep and the soil under such footings will be stressed to a depth of about 20' below the footing. Mr. Ireland informs me that Dr. Peck recommends that four commercial borings be made, one at each tower leg, three of them to a depth of 35' and one to a depth of 45'.

Mr. Ireland contacted Raymond Concrete Pile Company and obtained an approximate estimate of $600 for making these borings. The cost of getting the boring rigs on and off the site will be approximately $175, and the 150' of borings will run about $3 per foot, unless unanticipated difficulties are encountered.

We understand that you will consult Mr. Schooley concerning the necessity for the borings. Mr. Ireland suggested that these be made as directed by Dr. Peck or one of his assistants. He has agreed to assist you in wording a requisition for this work.

Since Raymond Concrete Pile Company can be on the site within two or three days of notification, we understand you will make arrangements to locate the centers of the tower legs with reasonable accuracy and will obtain grade elevations at the center of the legs, the approximate corners of each footing, and the center of the tower.

If there is anything we can do to assist you, please let us know.

Very truly yours,

PHYSICAL PLANT DEPARTMENT

By Arthur S. Davis
Called Art Davis

Re: Allerton Tower

Soil good for 4 - 6000 ft. in laying at depth of 10 ft. or below.

Consider soil above 10 ft. spread at 30° from vertical for uplift.
GOW DIVISION

June 27, 1950

Urbana, Illinois

Attn: Mr. G. W. Maxey

Gentlemen:

Thanks very much for your verbal order of today for making approximately four (4) GOW TEST BORINGS on the site of the proposed Radio Station, Allerton Park approximately 3 miles Southwest of Monticello, Illinois.

We attach hereto three (3) copies of our proposal covering this work and will appreciate receiving from you a mutually acceptable Purchase Order or two signed copies of the proposal. The Purchase Order, or the signed proposal, will be directed to our New York executive office for final review, and if approved formal acknowledgement will be made to you from that source.

We are arranging to ship equipment and personnel from Chicago tomorrow, June 28, with expected arrival in the Urbana area on Thursday, June 29.

We very much appreciate this opportunity of again serving the University of Illinois in a subsurface investigation program, and assure you that this work will have our very careful and expeditious handling.

Very truly yours,

RAYMOND CONCRETE PILE COMPANY
(GOW DIVISION)

A. Kleinfelder, Jr.

Encls. (3)

cc: Dr. Ralph B. Peck
113 Talbot Laboratory
Urbana, Illinois
June 27, 1950

Gentlemen:

We hereby propose to furnish all tools, labor and material and make approximately four (4) 30 ft. test borings, by our usual methods, on the site of the proposed Radio Station, Allerton Park approximately 3 miles Southwest of Monticello, Illinois, for the prices and on the terms hereinafter mentioned:

You shall mark the location of each boring on the site and establish the surface elevations referred to a known, fixed datum, supplying us with such data in sketch or plan form; shall furnish sufficient water for the conduct of the work within reasonable hose-pipe distance of the points at which it is to be used (or pay us the cost of pumping or hauling water plus 10% thereon); shall furnish free and uninterrupted entrance to and exit from the site for our equipment, materials and personnel; and shall secure all municipal and other necessary permits. Unless otherwise agreed to herein, we shall not be required to make borings inside or under buildings or structures nor to operate on or over bodies of water, flooded or marshy areas or areas obstructed by brush, piles or rubble, etc.

Each boring shall be carried to the depth required by you unless boulders or materials are encountered which prevent securing further penetration without hard or rotary drilling. "Hard drilling" shall be defined as that requiring 60 or more blows of a 140 pound weight falling 30 inches to drive a 2" O.D. sample spoon 12 inches.

We shall submit to you a graphical record showing the location of each boring together with the vertical arrangement, thickness, geological character and relative hardness of the several strata penetrated (and, in case ground water is encountered, the water-bearing strata and the elevation of the hydraulic grade), accompanied by properly labelled cartridge or core samples thereof; all as indicated by and procured from each boring.

We are protected by Workmen’s Compensation Insurance (and/or Employers Liability Insurance) and Public Liability Insurance and will furnish certificates thereof upon request.

We shall not be responsible for damage to property from any cause (including fire or explosion), except that we assume the risk of damage to our own supplies or equipment. In case we shall be required either by your contract or by your purchase order (or in case you shall in writing direct us) to procure Property Damage Insurance and/or Contractual Liability Insurance, we will take out such insurance (if reasonably procurable) to protect us, with such limits as you direct, but with the understanding that our responsibility for damage to property shall not exceed the coverage and limits and amounts of the insurance thus procured and that you will, in that case, reimburse us for the premiums paid by us for such insurance.
256 Administration (W)
June 26, 1950

RADIO TOWER
ALLERTON PARK

Mr. J. R. Brugger
234 Gregory Hall

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If there is anything we can do to assist you, please let us know.

Very truly yours,

PHYSICAL PLANT DEPARTMENT

By Arthur Davis

cc: Mr. H. O. Ireland
    Dr. R. B. Peck
    Mr. Frank Schooley
SOIL MECHANICS LABORATORY
UNIVERSITY OF ILLINOIS

UNCONFINED COMPRESSION TEST

2-INCH SHELBY TUBE SAMPLES

DATE 10 July 50
JOB NO. Allerton Tower
BORING
LOAD ON BEAM IN
DIAL RDG IN 0.001 INCH

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For 2" Shelby tube samples: Initial beam reading at 20% strain (in pounds) by 02 for compressive strength in tone per sq. ft.

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For 2" Shelby tube samples: Initial beam reading at 20% strain (in pounds) by 02 for compressive strength in tone per sq. ft.

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Art Davis  Ext. 615

Radio Tower  WILL
To be reinstalled at Allerton Pk.
550' high steel tower - 4 legs.  Blow Knot

Mr. Schreier - Director Radio Station

Flgs @ 4000' & 10' are 18' Square  1'6" thick

Wind  232
DL  70
Reaction per corner down 336 k
Uplift  226 k

June 23rd.
Called Mr. Davis - recommended that 4 borings (60") be
made - one at each flg. 3 of these should go to 35' and
one to 45'.  Estimated each $600.  ($175 m 6 off + 4 pmth)
DON'T SAY IT -- WRITE IT

Attention: Mr. H. Ireland  

Date: 7-10-60

Subject: Water levels after completion of job.

University of Illinois - Monticello Ill.

Water levels for boring No 1: 6'6"
2: 6'8"
3: 7'0"
4: 6'5"

Very truly yours,

Raymond Concrete Pile Co.
By: [Signature]