September 7, 1962 Mr. A. R. Thompson, Manager Publication Production Bell Telephone Laboratories 463 West Street New York 14, New York Dear Mr. Thompson, I am sorry we have been rather a long time acknowledging your letter of June 1 addressed to Dr. Emberson. We are very grateful for the offer of a replica of the Jansky antenna for the Observatory, and we are now ready to go ahead with our particular work that is involved. Can you let me know what we should prepare to do. I assume that we shall prepare the foundation and build the track on which the antenna will rotate. I expect also that we shall assemble the antenna from its component parts when you are able to send these to us. Do you have any drawings or sketches of the replica which will help us in getting this work started? If a visit from one of our engineering staff to you or to the Bell Laboratories would help, perhaps you can let me know and we will arrange this. Sincerely yours, John W. Findlay, Deputy Director JWF/pi cc: DSHeeschen

ph BELL TELEPHONE LABORATORIES ASS WEST STREET, NEW YORK SALES Aska Coot 212 CHELDRA \$ 1000 Sertember 17, 1902 Mar John W. Fladial. Deputy Director Mational Radio Astronomy Charrestory Italia (Company Company Compan Green Bair, West Virginia Thank you for your latter of deptember 7, concerning the arestion of the James, antenna replica at Green Bank. I hallers that the preparations you mention, plus the erection of the material we supply will take care of the job. Our carpenter shop at Holadel, New Jersey, is now cutting up the lumber as its achequie permits. I se afraid I can't give you are exact Cate when this work will be finished. But it should be within a month or two. As soon as we are far arough along to justify further planning, we will be in Continue 101 104. Very trally yours. al to the contract A THE THOUSE ON

DESIGN PINTLE BEARING JANSKY ANTENNA

LISE 3000 / IN CONCRETE @ 28 DAYS

3000 / ST BEARING FOR FARTH

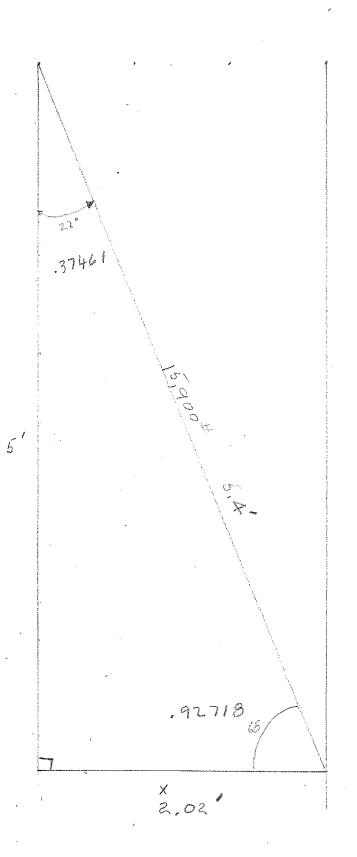
WIND = 6000

2'-0" #2 12" OC 5 ppr face 4'oc GROUND LEVEL ? 6'-0"

Mothe 3.65. 1-2-63 Weight 1.5 x 6 x 6 x 150 = 8,100 = Concrete 16 × 1.6 × 2 × 100 = 4,800 to D. + 14,400# Dist Wind will act around 5-0 about bottom of footer. i. Tok over twomay 14,400 X 3 = 6000 X 5 T 44,200 = 3000 OK 14,400 x .05 = 7,200# for slife of Res = 2' From conter See page 3 Ground proseure at los = 3 mm = = 800 70 Donels IN sheet Bors go for 12,000 th

20 BAR X 0.20 IN2 X 12,000 = 48,000

BOND 100/IN'X 5 X 15 X 1.6



$$\frac{5}{.91718} = \frac{x}{.3.7461}$$

$$x = \frac{5 \times .37461}{.92718}$$

$$x = 2.02$$

September 9, 1963

Mr. Grote Reber C.S.I.R.O. Stowell Avenue Hobart, Tasmania AUSTRALIA

Dear Sir:

We are planning on reconstructing the Jansky antenna at Green Bank. It is now at Bell Labs, Crawford Hill, Holmdel, New Jersey, and they have assembled all the components except the auto wheels on which it rotates. They are depending on us to furnish these, and I understand you procured some for the Observatory when you worked here.

Could you let me know where they are, and what arrangements can be made to have them ready for mounting on the antenna within the next few months.

Sincerely yours.

W. W. Pleasants, Chief Engineer

WWP/pj

Air Mail

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION TASMANIAN REGIONAL LABORATORY

"STOWELL", STOWELL AVENUE, HOBART, TASMANIA, AUSTRALIA

16th September, 1963.

Wr. V.W. Pleasants, W.R.A.O., P.O. Box 2, Green Bank, West Virginia, U.S.A.

Dear Wr. Pleasants,

Thank you for your interesting letter of the 9th. I am happy to learn the Jansky Antenna project is going ahead and hope it will be nounted at the right side of front entrance. Yes, I have an ample supply of front exles, wheels and rims and will be pleased to donate these. Presently they are in storage at Bound Brook, New Jersey. I will have them sent to Holmdel or to Green Bank upon learning your instructions. The correct wheels are the large ones which I have.

The type of tires is disputable. Back says they were hard solid rubber tires when he used the machine a few years later. He should know. However the picture in hobby clearly shows pheumatic tires. It seems likely the latter were changed to the former after Jansky finished his observations. Today the mountaic tires and tubes can be purchased new from Bears Roebuck. The solid tires may be very difficult to secure.

Please keep so advised of progress on this project.

I am,

Yours faithfully,

Grote Rebor.

September 25, 1963

Nr. Arthur Thompson Bell Telephone Laboratories 463 West Street New York 14, New York

Dear Mr. Thompson:

In accordance with our discussion during my visit to Holmdel on September 5, I am enclosing photos of the Reber telescope and the site proposed for the Jansky antenna.

Enclosed also is a copy of a letter just received from Mr. Grote Reber explaining that the wheels and axles are located in New Jersey.

Perhaps you would want to get them from him and ship them down with the telescope. You might want to communicate directly with him to this end.

Please let me know if I can provide any more information

Sincerely yours,

W. W. Pleasants, Chief Engineer

WWP/j

Encl.

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION TASMANIAN REGIONAL LABORATORY

4th October 1963

"STOWELL", STOWELL AVENUE, HOBART, TASMANIA, AUSTRALIA

kr. V. G. Plessents N. R. S O. 17.0. Box 2 Green Bank West Virginia, V.S.A.

Deir Er. Pleasants:

Recently, Er. A. R. Thompson of BTL has informed me that they will pickup the axles and wheels from Bound Brook. I am writing to him details about tires, etc. There probably will be some entra parts left when the Jansky antenna is completed. I would suggest that these be placed in a puitable case and put in storage at Green Bank. Ford model T parts are becoming very scarce. Someone might like them at a future date.

I hope the antenna will be installed at right side of frontentrance. This happens to be lower than left side. I would suggest the following.

- A. Scrape off the small mound at very right front to level or below the road. Push this dirt into low spot.
- B. Jansky had his track only about a foot above ground. It seems to have been made of concrete blocks with a cement top surface. To partially overcome the low terrain, it right be well to raise the track about four feet on a solid concrete wall closely similar to what my equipment is installed.
- J. The pleats in surface of wall are mather pretty. They are caused by allowing the masonite forms to bend when concrete is put in.
 - D. Plant same type of evergreen hedge around wall.

Please keep me advised of developments and send to me a picture when finished. I am.

Yours Paithfully, Corone Reper

BELL TELEPHONE LABORATORIES

INCORPORATED

CRAWFORD HILL LABORATORY
BOX 400, HOLMDEL, NEW JERSEY 07733
TELEPHONE
AREA CODE 201
949-3000
HOH-L141

November 22, 1963

MR. W. W. PLEASANTS Chief Engineer National Radio Astronomy Observatory Green Bank, West Virginia

Dear Mr. Pleasants:

Enclosed are two sets of prints of the Jansky antenna and its markings for assembly. These have the following numbers:

B - 608241 - 2 inc.

B - 608249 - 61 inc.

B - 796291, two sheets

B - 799805

I hope that the information is good enough for its assembly. If there is any question, do not hesitate to get in touch with me or with Mr. Thompson. We are very much interested in the progress of the project, naturally.

Good luck.

Very truly yours,

A. C. BECK

1-17-64

To = W. W. J.

From: 3.2.3.

Judgett: Tires for Junsky

Antenne

Antenne

Thes 30×3/2 34.00 Ea.

Tobes 30×3/2 3.18 Ea.

Tolal cost \$1/48.72

FOUNDATION JANSKY 34 OUTSIDE WALL 4////08/16 34 x 3,1416 = 106.8 St TAKE 106' 106 x 1.5 x + and the state of t - 11.80 13.11 and 1 - plan \$ 45,0 13.5 x 70.00/and Company of the Compan Ground lovel #4-1200 3-#4-Transport of the second

September 2, 1964

Mr. E.F. Carpenter

Mr. Arthur Thompson Bell Telephone Leboratories 463 West Street New York 14, New York

Dear Mr. Thompson:

We have completed erection of the Jansky Antenna. I am under the understanding that the Bell Lab has a plaque to be installed near the antenna. If not we will have one made. Suggestions to the wording of the plaque would be appreciated.

Sincerely yours,

S. C. Smith

For J. A. Hungerbuhler Head of Engineering

SQS/cp

November 17, 1964

Mr. E. F. Carpenter Bell Telephone Laboratories 463 West Street New York 14, New York

Dear Mr. Corponter:

The enclosed photograph shows the erected Jansky Antenna. The wood is painted white, the concrete green and the spokes of the wheels red. The only item left to complete the project is a suitable plaque.

Mr. A. C. Beck of your organization stopped on his recent vacation trip south and looked over the job. We loosely discussed the plaque, which Mr. Beck said is yet to be made. Since Mr. Becks departure some of our people have expressed a desire to see the wording before the plaque is made. If this meets with your approval and can be arranged we would greatly appreciate it.

Sincerely yours,

S. C. Swith For J. A. Hungerbuhler Head of Engineering Div.

SCS/cp

Enc.

February 1, 1965

Mr. W. M. Johnson Bell Telephone Laboratory 463 West Street New York 14, New York

Dear Mr. Johnson:

In reply to our telephone conversation of January 29, 1965, find enclosed two photographs. One showing the small plaque under Karl Jansky photograph in the main lobby of our Laboratory Building, and the other showing the plaque attached to our 85 foot Radio Telescope.

If I can be of more help in any way do not hesitate to call.

Sincerely yours,

Sidney C. Smith

SCS/cp

Enc.





October 12, 1965

Mr. William Robinson General Information Department Room 1116B Bell Telephone Laboratories 463 West Street New York, New York 19014

Dear Mr. Robinson:

In your letter of October 4 you suggested that Dr. W. O. Baker, a Vice President of Bell Laboratories, could make the presentation of the plaque for the Jansky antenna to this Observatory at the time of the meeting of the National Science Board in March, 1966. Your suggestion sounds like a good idea.

The text on the plaque described in your letter looks fine. What will be the dimensions of the plaque and where will it be placed?

Please let me know if I can be of further assistance to you.

Sincerely yours,

William B. Howard Associate Scientist and Assistant to the Director Concrete 51000556 3.1416 × 17 = 53.5 $\frac{3}{4}$ \times $\frac{1.5}{1}$ \times $\frac{53.5}{1}$ = 60.3 cm. 3 X = X = 160.5 220.8 ÷ 27 = 1 8.2 m .75 a. L. 2.6 = 20.0 = 6 x 6 x 1, 5 = 5 4

Al. Lid for Jansky Drive Box 32% PLAN

NATIONAL RADIO ASTRONOMY OBSERVATORY

October 5, 1977

MEMO TO:

B. Peery

FROM:

S. C. Smith 5. C. S.

SUBJECT:

Jansky Antenna

In making a safety inspection with Al Steinemann, we found the lid covering the drive package in bad shape exposing the drive motor to the weather. The drive chain was off of the main sprocket and on the ground.

As a safety measure, Al and I decided to make a new lid for the drive box to protect the motor.

I think it might be best to make a new drive package covering large enough to enclose the chain after it has been cleaned and oiled.

To sketch a new covering, it would be helpful to know if the antenna is likely to be used again and if the chain should be on or off.

The wooden members will need to be painted this coming summer.

To. R. Moore FROM: Buck Peery-Engineering. Subject: Jansky Antenna.

10/5/77. Please find attached s.c. Smith's memo of

It is recommend that maintenance of the structure to include painting be scheduled and carried out. It is recommended the drive Chain be stored inside the enclosure for the motor - That is the drive system be left disconnected unless some one knows of plans to operate the antenna.

C.C. R. Brown F. Crews S. Smith

MEMORANDUM OF CALL
TO:
YOU WERE CALLED BY- YOU WERE VISITED BY-
OF (Organization)
PLEASE CALL PHONE NO. CODE/EXT.
WILL CALL AGAIN IS WAITING TO SEE YOU
RETURNED YOUR CALL WISHES AN APPOINTMENT
MESSAGE
D. Stone given
this File Feb. 23,197

RECEIVED BY	DATE	TIME
STANDARD FORM 63	GPO:1969-048-16-80341-1 232-289	63-108
REVISED AUGUST 1967 GSA FPMR (41 CFR) 101-11.6		