

W. P. Bowles. c995
R. I.

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30th March, 1961

NI/GP/61/24
RLBC/P51

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCE

GENERAL PURPOSES COMMITTEE

Extension to Nimrod Control Room

Note by the Chairman of the Rutherford Laboratory Building Committee

1. When the control building was planned in 1957 it was realised that the size required for the control room was somewhat unknown and it was constructed with partitions at each end so that it could expand as required. However, the adjacent rooms are now considered to be ideally suited as counting rooms and a more compact and advantageous layout is possible by increasing the width of the control room by a low annexe 60 ft. in length x 16 ft. wide.
2. This increase in size will be adequate to include all the remote control equipment for the beam transport system as well as that for NIMROD. It will also allow a more generous amount of space in front of the control racks which will be needed particularly during the commissioning period.

The location of the proposed extension is shown in the attached sketch plan.

3. Architectural drawings have been prepared and a specification approved. The estimated cost from the Quantity Surveyor based on this information is as follows:-

	£
(i) Building and Civil Work	8,100
(ii) Mechanical and Electrical Work	1,600
(iii) Provisional sum for diversion of drainage	1,000
(iv) Contingency allowance	1,800
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	£12,500
Fees	1,875
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	£14,375
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This expenditure will fall mainly in the financial year 1961/62, sufficient funds being available in the approved estimates.

4. The requirements for this building have been carefully examined and are considered to be the minimum for its particular function. The cost of this extension excluding fees is £13 per sq. ft. This high cost is due mainly to the following reasons:-
 - (i) The extension is on "made up" ground and includes for a piled foundation. The uncertainties of this type of construction are reflected in the high contingency allowance.
 - (ii) Diversion of existing drainage. A scheme for providing an alternative drain is being investigated with a view to reducing this cost.

- (iii) The M. & E. work includes for six exhaust fans in the roof of the extension.
- (iv) A cable duct is required from the proposed extension to Building R₃.
- (v) The scheme embraces certain modifications to the existing control room.

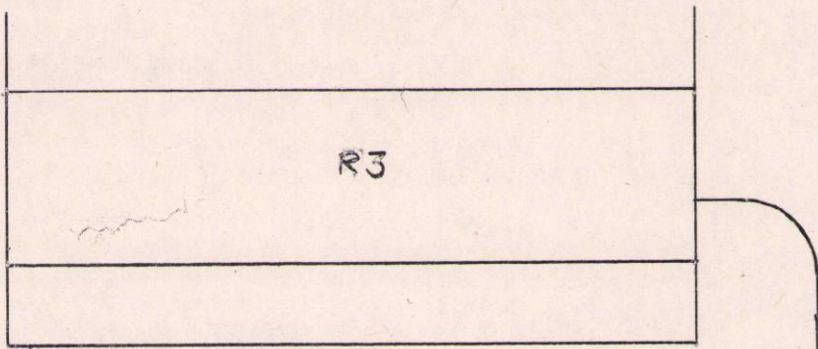
5. Subject to approval of this scheme it should be possible to complete this extension by the end of 1961. This will allow continuity of building effort from the labour force employed on adjacent buildings and will phase in with the progressive installation of control equipment and cables in the main control room.

6. Approval is sought for the scheme described in this paper at a cost not exceeding £14,375.

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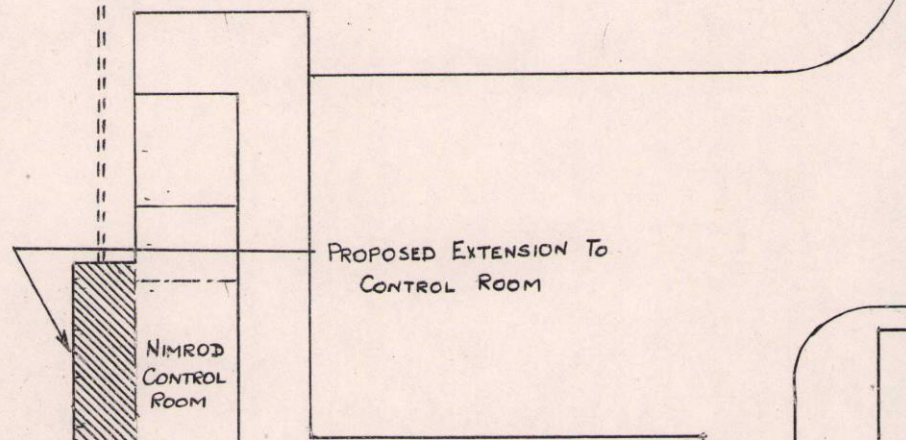
R5



R3

CABLE DUCT

TUNNELS



NIMROD CONTROL ROOM

PROPOSED EXTENSION TO CONTROL ROOM

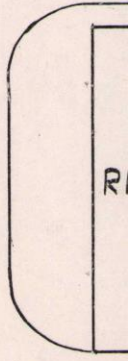
R6

COUNTING CABLE

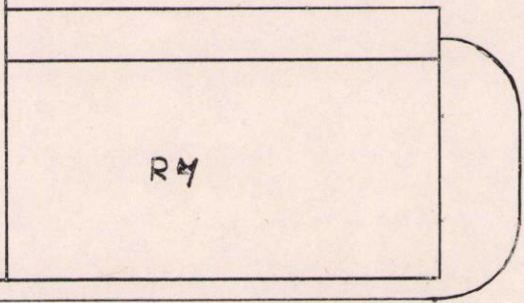
TUNNEL

ROOM FOR COUNTING CABLE TERMINATIONS

R2



R1



R4

SITE PLAN

PROPOSED EXTENSION TO NIMROD CONTROL ROOM

SCALE = 1/500